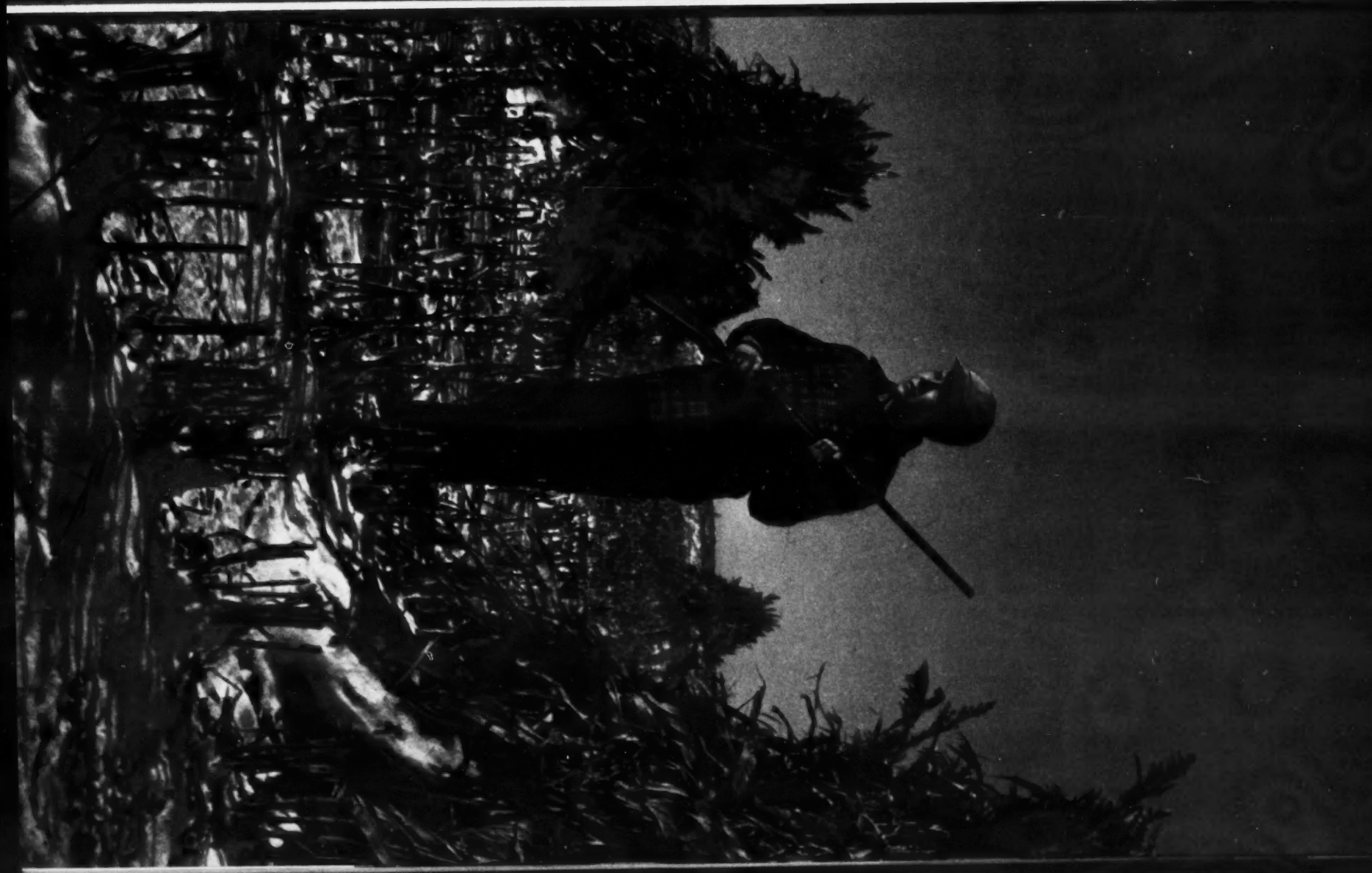
AMERICAN RIFLEMAN



Peter Peepsight starts the season with a possible AN ALIBI

VIC, MY BOY, YOU'RE ABOUT TO LEARN A GOOD LESSON IN INDOOR SHOOTING. WATCH ME CAREFULLY

I SURE AM, POP. YOU BETTER OPEN THAT BOLT AND STOP POINTING THE GUN AT ME

FIRST YOU SHAKE THE MAT SO IT WON'T BE DUSTY TO LIE ON

THEN YOU FIX A TARGET FOR PRONE FIRE AND RUN IT DOWN THE RANGE. HMMM. THIS WHEEL'S STUCK AGAIN. LET'S TRY THE NEXT POINT

WAKE ME UP WHEN YOU'RE READY TO FIRE

NOW WE'RE ALL SET TO SHOOT. NOTICE HOW I KEEP THE TOOL BOX HANDY SO I DON'T HAVE TO SHIFT OUT OF POSITION

WHATCHA GONNA SHOOT, POP? THERE'S NOTHING BUT SCREW-DRIVERS IN HERE

FORGOT MY AMMUNITION? OH WELL—SOMETIMES A NIGHT OF DRY SHOOTING HELPS YOU ALMOST AS MUCH AS ACTUAL FIRING

AW GEE! NO FUN! SAY—HERE'S HALF A BLOCK SOMEONE MUSTA LEFT

...AND ANOTHER REASON I DIDN'T GET A POSSIBLE WAS THAT GLARE ON THE TARGET... AND MY COAT FELT STIFF...AND MY SLING KEPT SLIPPING.....AND

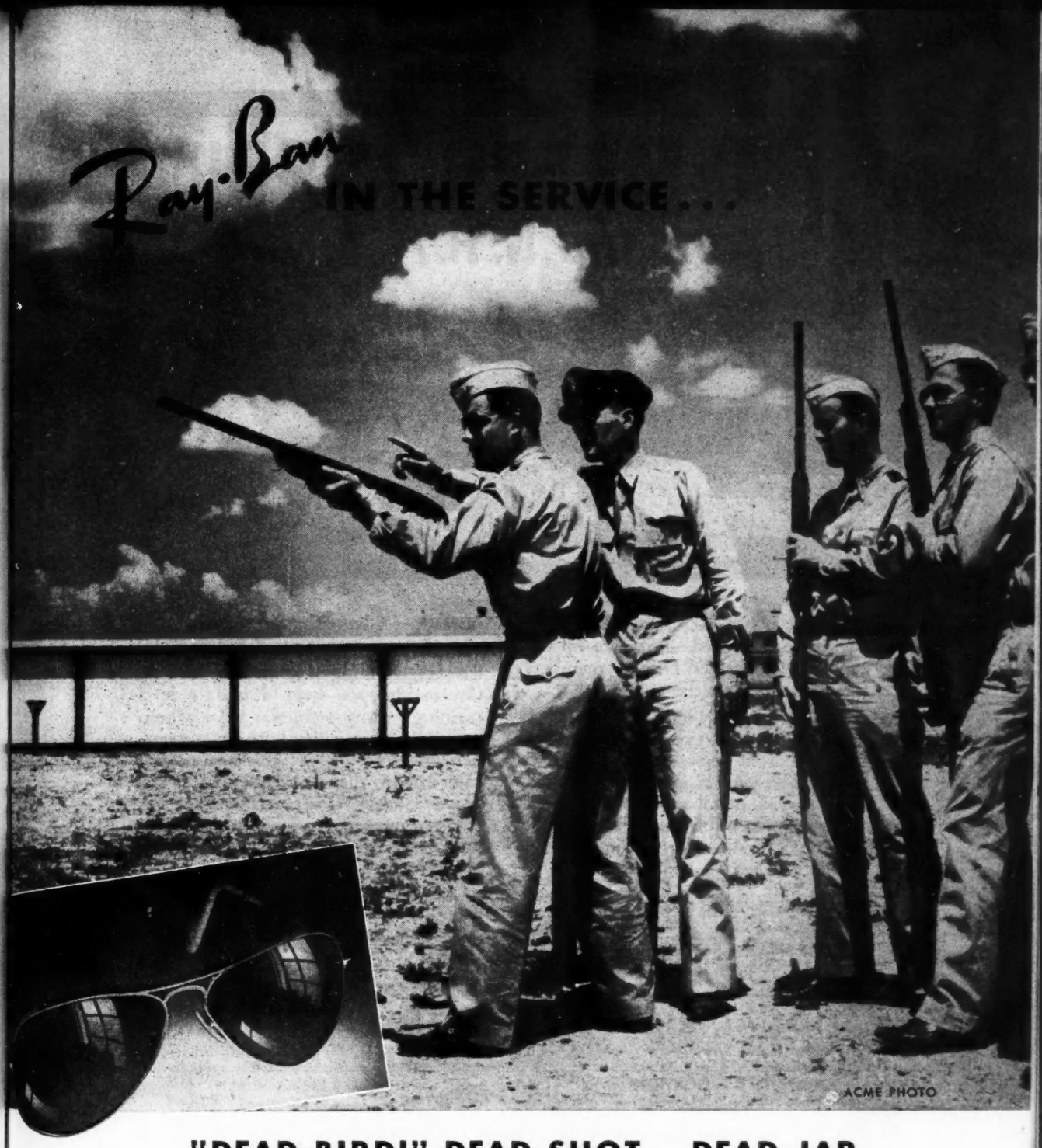
AND IN CASE YOU DON'T KNOW IT — THAT AMMUNITION I FOUND WASN'T **PETERS** "POLICE MATCH" WHICH IS FAMOUS FOR UNIFORM ACCURACY

PETERS Rifle and Pistol Ammunition

PETERS CARTRIDGE DIVISION, *Remington Arms Co., Inc., Bridgeport, Conn.*

* "Police Match" is a trade-mark of Peters Cartridge Division

DU PONT



"DEAD BIRD!" DEAD SHOT...DEAD JAP

Skeet shooting is an essential part of Army and Navy training for Air Force gunners. To protect their eyes, student aviators wear Ray-Ban sunglasses—favorite of skeet shooters before the war. In full sunlight, their eyes are relaxed, comfortable—glare-producing rays cut to a minimum by Ray-Bans' filtering glass. Vision of the target is sharp, clear, because Ray-Bans transmit most of the light useful for seeing.

Wherever sun-glare can harm precious eyes, Ray-Ban lenses are being used by the armed forces to protect that eyesight—in pilot training, on Ferry Command, at ships' lookout stations, plane spotting posts, for tank crews. Ray-Bans essential for civilian work, are available *on prescription only.*

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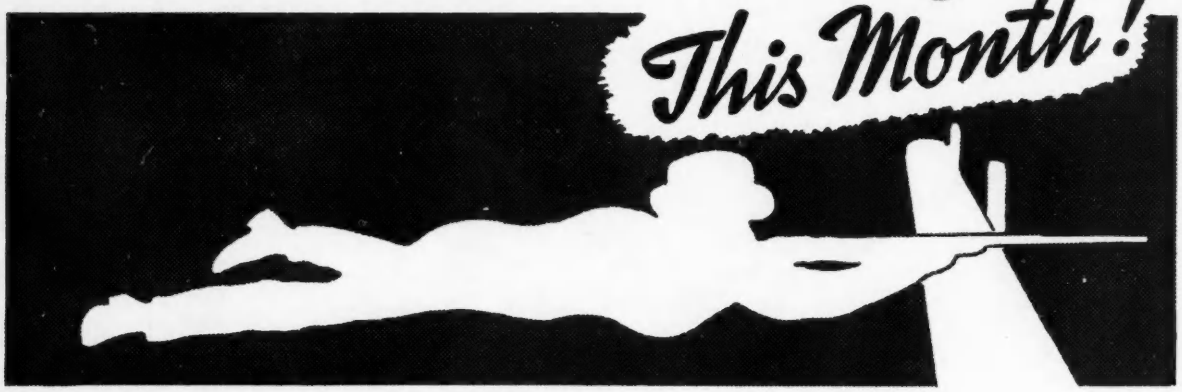
OPTICAL CO. ROCHESTER, N. Y.
ESTABLISHED 1853

AN AMERICAN SCIENTIFIC INSTITUTION PRODUCING OPTICAL GLASS AND INSTRUMENTS FOR MILITARY USE, EDUCATION, RESEARCH, INDUSTRY AND EYESIGHT CORRECTION

500 MEMBERS MISSING.. from the N.R.A. Firing Line, This Month!



That's why 500 NEW members are needed—now—to fill the gap left by former N.R.A. members recently called to the colors.

Ordinarily we would welcome any number of good Americans. But for the present at least, the only NEW members we can accept are those which replace *lapsed* memberships. Our quota of paper (for publishing THE RIFLEMAN) permits no further increase in circulation!

In filling these 500 vacancies we want the *friends* of our friends to have first call. So we are publishing this priority application in THE RIFLEMAN instead of advertising elsewhere.

Perhaps you know a good man who has been thinking of joining the N.R.A. Or, maybe you have a buddie in a training* camp or in war work whom you wish to remember with a gift membership-subscription this Christmas Here then is the opportune time to introduce your friends. They are the folks we prefer—and your Association needs 500 "replacements" this month!

Will you help us? Will you help some good American to discover the benefits—the services—of our great fraternal organization? Clip and mail the application today.

NATIONAL RIFLE ASSOCIATION OF AMERICA

1600 Rhode Island Avenue **Washington (6), D. C.**

PRIORITY APPLICATION

Yes, here is a new member to help fill the N.R.A.'s limited quota this month. For the inclosed remittance enter his membership subscription

☐ **For one year—$3.00.**

☐ **For two years—$5.00.**

Name.....

Occupation..... Age.....

Address.....

City–State.....

ENDORSEMENT

(For New Members Only)

I am glad to recommend this applicant who is a loyal U. S. Citizen, and who subscribes to the N.R.A. pledge of allegiance.

Endorser.....

Occupation.....

☐ **N.R.A. Member** ☐ **Club Official**

☐ **If a XMAS GIFT, card should read from:**

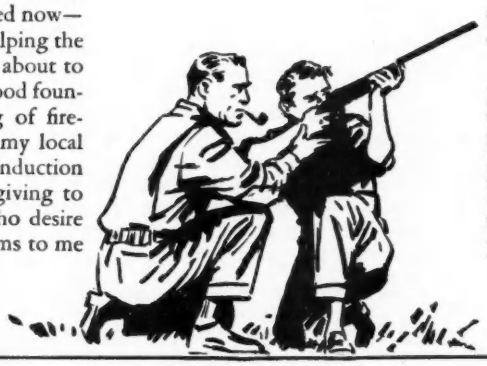
.....

*** Unfortunately, subscriptions for Army personnel on foreign duty cannot be accepted due to government restrictions.**

I'M REALLY DOING SOMETHING TO HELP . . .

● ● ● I was worried for awhile. There didn't seem to be much that an old fellow could do to help the war effort. I was much too old to join the army and my health kept me from doing heavy defense work. I felt pretty badly about being on the side lines while the other fellow carried the ball.

But things are changed now—I'm in the game. I'm helping the young fellows who are about to enter the service get a good foundation in the handling of firearms. I've joined with my local rifle club in the pre-induction rifle training they are giving to all men of draft age who desire such training. This seems to me to be a worthwhile activity. It prepares the recruit for his new life in the service and in many cases the training he receives from the rifle club speeds his promotion. Then, too, the service instructor's work is lessened and he can spend more time training the raw recruit. I know my work is appreciated not only by the inductees, but also by the services.



If you have the ability to impart your knowledge of shooting to others, put that ability to work by joining your rifle club in its pre-induction training program. I'm getting a big kick out of training these young fellows and you will, too.

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America's New Light-weight Weapon

...with a Heavy-weight's Punch

THANK the United States Ordnance Department for this good news. They quickly realized that, in *this* war, our paratroops, and all other non-rifle bearing combat forces, needed a personal weapon that was lighter than the standard rifle . . . greater in fire-power, longer in range and faster in action than the automatic pistol.

Yesterday, no such weapon existed. Today, it is rapidly being made available to America's fighting men.

Here's the story. In record time, Winchester *originated, engineered and developed* the U. S. Carbine, Caliber .30, M1. Gruelling tests in sand, rain and water—the toughest tests that Aberdeen Proving Grounds could devise—resulted in a unanimous verdict for *this* carbine as the best for this vital U. S. military job.

Operating on a simple principle that's entirely new to military arms, with 15 rounds in its magazine, the Winchester U. S. Carbine, Caliber .30, M1 packs a terrific wallop. It speeds its .30 caliber bullet 1900 feet per second . . . greatly increases offensive power.

Winchester is proud of this accomplishment . . . of originating and developing the U. S. Carbine, Caliber .30, M1 . . . of manufacturing it in ever increasing quantities. We are mindful of the fact that it is Winchester *men,* not machines, that made it all possible. And that these same Winchester master craftsmen look forward to the coming peace when, once again, they can supply you with Winchester sporting arms and your favorite Winchester ammunition.

WINCHESTER REPEATING ARMS CO.
New Haven, Conn.
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GARANDS, TOO! Here again, Winchester craftsmanship is in the forefront of service to America. For we have long been on a 'round-the-clock production schedule of this famous rifle which won its spurs at Bataan and Wake Island.

"Everyday—with a Winchester Garand across his knees and a bolo to cut himself out of his harness if he fell into the water—he flew between Bataan and Corregidor . . ."
"The Heroic Defense of the Philippines"
—Reader's Digest, July 1942

WINCHESTER

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RIFLES AND SHOTGUNS • CARTRIDGES AND SHOTSHELLS • FLASHLIGHTS AND FLASHLIGHT BATTERIES

The *Official Journal of The National Rifle Association of America*

AMERICAN RIFLEMAN

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THE COVER: This month, when "the frost is on the punkin and the fodder's in the shock" and the hunting season is here again, we offer this timely masterpiece by that real outdoorsman, Bert Popowski—not to intensify the homeward yearnings of our men abroad but as a simple symbol of one of the things those men are fighting for. Hasten the day when, once more, this crisp fall scene can be a part of every American boyhood.

THIS MONTH

"Buckskin Rifleman," by Charles Atwell and Marvin Rapp, introduces Nat Foster, Indian fighter, hunter, and "one of the three or four frontier York State riflemen worthy of record," in a bloodless duel that explains one phase of the "Nat Foster legend."

"Mallards of Old Mill Bayou," by W. M. Garlington, may make you curse the fates that are robbing you of this year's marsh or pass shooting, but it is an argument for shotgun power (even at sane ranges) that is provocative and worthy of every duck hunter's attention.

"Talkin' Turkey"—or how to say "come hither" in turkish. Whether it helps you bag that next big gobbler or not, it is a lesson in turkey tactics as practiced by experts. Words and music by Horatio Bigelow.

"The Carbine Fires For Record" is a timely and first hand (though somewhat censored) report on training methods and results obtained in actual range tests of the Army's most discussed weapon. By Major Walter R. Stokes, Director, Luna Army Air Field Weapons School.

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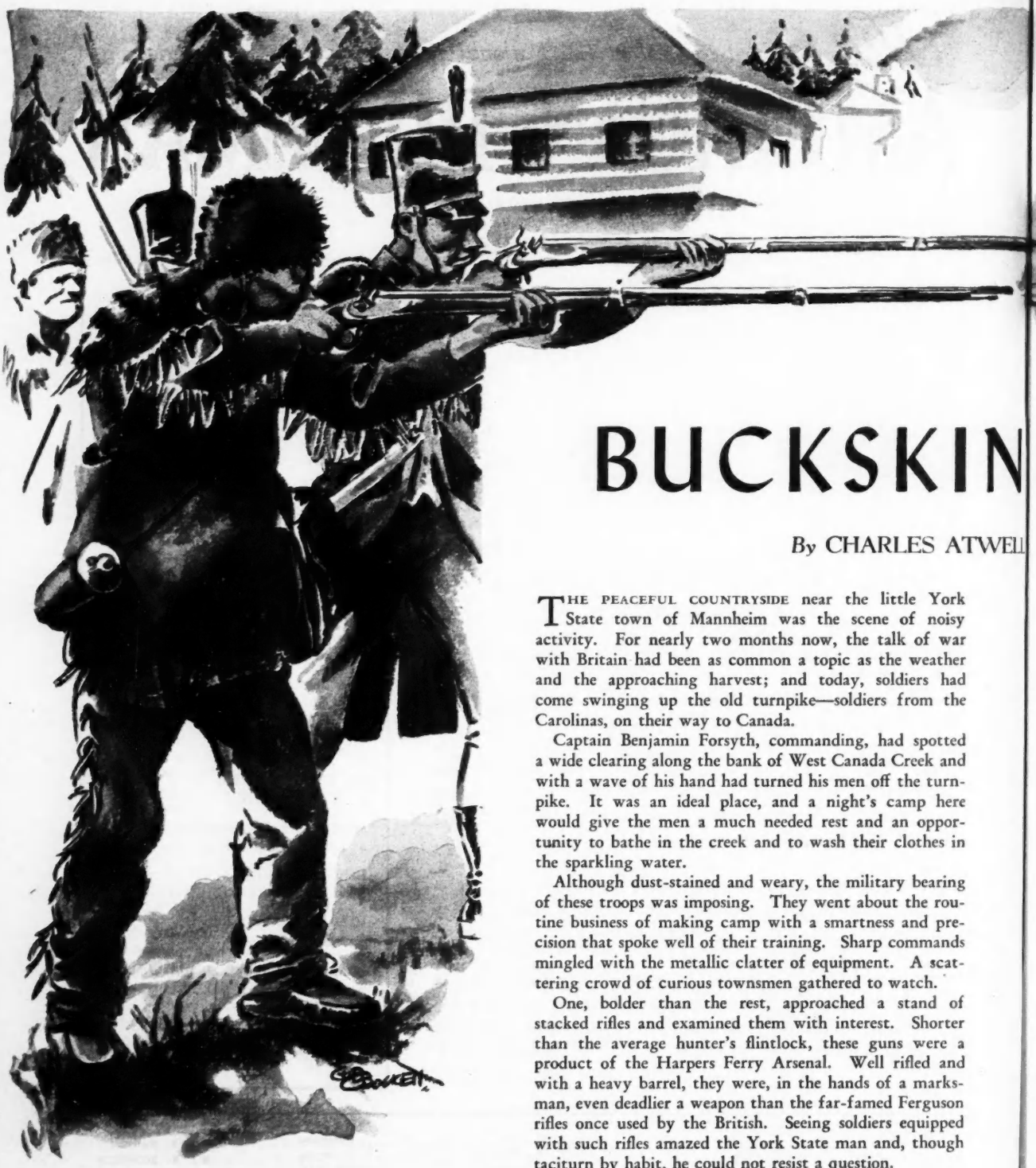


BUCKSKIN R

By CHARLES ATWEL

AN

Nat Foster may or may not have been the Natty Bumpo of the Leatherstocking Tales, but he was one of the great York State frontier riflemen. This story is an authentic part of his legend.

THE PEACEFUL COUNTRYSIDE near the little York State town of Mannheim was the scene of noisy activity. For nearly two months now, the talk of war with Britain had been as common a topic as the weather and the approaching harvest; and today, soldiers had come swinging up the old turnpike—soldiers from the Carolinas, on their way to Canada.

Captain Benjamin Forsyth, commanding, had spotted a wide clearing along the bank of West Canada Creek and with a wave of his hand had turned his men off the turnpike. It was an ideal place, and a night's camp here would give the men a much needed rest and an opportunity to bathe in the creek and to wash their clothes in the sparkling water.

Although dust-stained and weary, the military bearing of these troops was imposing. They went about the routine business of making camp with a smartness and precision that spoke well of their training. Sharp commands mingled with the metallic clatter of equipment. A scattering crowd of curious townsmen gathered to watch.

One, bolder than the rest, approached a stand of stacked rifles and examined them with interest. Shorter than the average hunter's flintlock, these guns were a product of the Harpers Ferry Arsenal. Well rifled and with a heavy barrel, they were, in the hands of a marksman, even deadlier a weapon than the far-famed Ferguson rifles once used by the British. Seeing soldiers equipped with such rifles amazed the York State man and, though taciturn by habit, he could not resist a question.

"Is the gov'mint," he asked, "givin' these guns to ever' man that jines up?"

A soldier driving tent pegs nearby stopped and looked at him. The answer came in a slow drawl, rich with the tang of the southern mountains. "Not by a dum sight, it ain't! We-uns gets 'em. But we-uns ain't jest ordinary sojers. We all is riflemen."

RIFLEMAN

AND MARVIN RAPP

"Huh!" The Yorker's grunt was highly skeptical. "Riflemen, eh? I ain't never seen a soldier yet that a good hunter couldn't outshoot!"

A soft voice spoke from just behind the skeptic and the soldier stiffened to attention. "What makes you think *we're* not hunters?"

It was Captain Forsyth speaking. He motioned the soldier at ease with a nod and, without waiting for an answer to his question, continued. "Almost every man here has hunted the Car'lina hills since he was old enough to carry a rifle! We're not soldiers by profession. We're only soldiers from necessity."

The tanned face of the York Stater still wore its skeptical frown. "Wal," he said, "I remember t'other war. Soldiers that come through here then was 'bout as handy with a musket as a cow would be—and slow to boot."

"That was some thirty years ago," Forsyth said. "Times have changed!" He reached for one of the rifles and handed it to the townsman. "This doesn't look much like the muskets they used in '76, now, does it?"

The townsman examined the rifle closely. When his curiosity had been satisfied he looked up. He said admiringly, "That's a right smart rifle but it needs a right smart man behind it to make 'er talk the way she *could* talk." He grinned. "I ain't see'd nobody here that looks like he could do it! All them fancy uniforms and sech—they're purty, but they don't make a man a shot!"

Forsyth frowned slightly. "Our riflemen are the pick of the Car'linas, suh," he said flatly. He pointed to a soldier nearby, a man seated on a log cleaning his rifle. "See that man? His name is Robinson. Some claim he's the best rifle shot in the world. Whether or not that's strictly true, we have no way of knowing; but it *is* true that so far no man has been able to disprove it!"

The Yankee looked hard at the soldier, then turned back to the Captain. "Best in the world takes in a heap o' territory, Cap'n. It includes York State. . . . We got a hunter over Salisbury way, name o' Nat Foster. Nat's done a heap o' huntin' 'round these parts; trapped and shot all the way from the St. Lawrence to the Mohawk. I reckon there ain't many critters ever got away from him neither. Leastwise, he's got a mess o' skins in his shed right now that ain't there by accident!"

"Have you ever seen him shoot?" the Captain asked.

"Some," the townsman admitted. "Just t'other day I seen him win a nice shiny powder-horn off'n a stranger, bettin' he could fire his old flintlock six times in a minute, startin' with gun unloaded. He done 'er, too. Fastest shootin' I ever did see."

Forsyth looked thoughtfully at the Yankee. "Do you suppose Foster would agree to a match with Robinson?"

"Reckon so," the Yankee said. "Never know'd Nat to turn down a sportin' offer."

"Excellent!" said the Captain. "Ask Foster to be here tomorrow and we'll settle the argument."

The York State man's furrowed face softened slightly and a glint danced in his eye as he realized that he had succeeded in his purpose. He had goaded the Captain into accepting a Yankee bargain! With a quick handshake to seal it, he turned, and in the deepening twilight, started through the camp on his way to Salisbury and to Nat Foster.

Before taps, news of the contest had spread through

the camp and the countryside and by reveille it was evident that more than Robinson's reputation would be at stake on the morrow. Pride of the regiment and staunch belief in Robinson's ability on the one side was matched on the other by the shrewd faith of the York State men in Nat Foster. The bets mounted.

The next day's sun had just begun its westward slant when Foster presented himself at the Captain's tent. The field had been paced off and the bark targets set up one hundred and sixty feet distant. There were scant formalities; a brief introduction, a quick handshake, and then Foster and Robinson walked to the firing line.

As the contestants took their places, Forsyth outlined the rules of the contest. "The man who first hits the target six times will be the winner." He held up a pistol he had brought from the tent. "When I fire, you will begin loading. Is that clear?" The men nodded and Forsyth stepped back.

Standing side by side, the soldier and the hunter presented a striking study in contrasts. Robinson, who took his stance opposite the left target and nearest the line of "spit-and-polish" soldiers, was nattily attired in a well-fitted cutaway coat of bluish gray faced with buff lining and lapels, blending neatly with tight breeches of light blue. Two broad white bands were drawn tightly across the chest and over the shoulders. Topping this bright regalia was the gayly decorated cylindrical hat, replete with visor and pompon. From shiny gaiters to the well brushed hat, Robinson looked sufficiently starched to lead a dress parade at West Point.

Nat Foster must have felt a bit conspicuous among the brightly colored uniforms of those Carolina riflemen. His dusty buckskin coat and trousers edged with fringe fell loosely about his tall form, and beaded moccasins and coonskin cap completed his utilitarian uniform.

Forsyth raised his pistol. A hush fell over the regiment and over the townsmen, each group fixing its gaze upon its champion. It was the same tense silence that had so often been Foster's companion in the hills and woods.

As the pistol shot rang out, both men's arms moved with almost the same motion and two powder-horns flashed upward. Robinson released his horn first and reached for his bullet-pouch. Unhurried, Foster charged his rifle with powder. By the time the hunter's powder-horn had fallen back to his side, the soldier was already seating his bullet. Then, mysteriously, Foster cupped the muzzle of his rifle with his left hand, tapped the butt sharply against the palm of his right hand and brought the gun to his shoulder.

The two shots cracked out simultaneously. A hole appeared in each target—dead center. One question was in the mind and on the lips of every soldier. *Where did Foster get his bullet?*

None had seen the hunter reach into pouch or pocket. Had his hand moved faster than their eyes could see?

One soldier, more observant than the others, said dazedly, "Why hell! That forest rascal don't even *have* a bullet-pouch!"

Even as he spoke, the woodsman's rifle came to his shoulder for its second shot. The high-pitched crack of the long-barrelled flintlock preceded the loud crash of the soldier's rifle by a split second. An awed silence gripped the onlookers as they strained their eyes to solve the mystery of Foster's loading. Again the Yorker's rifle dropped to his side. It received its third charge, and this time the spacing between his shot and that of the soldier was more appreciable. Foster was gaining!

Watching closely the rhythmic action of Foster's arm, the soldiers caught a variation in his loading technique now. After charging his gun for the fourth shot, he placed his *right* hand, instead of the left, over the muzzle, tapped the stock, and brought the gun to his shoulder.

As the seconds sped by, Robinson's plight became more evident. The smoothness of his loading was gone now. He was amazed and hurrying. In contrast, Foster's tempo quickened. While the Carolinian reloaded for his fifth shot, Foster's flintlock bored its fifth hole in the target. Reloading this time with even greater speed, Foster swung his gun to his shoulder just as Robinson did likewise. Foster's sixth shot matched Robinson's fifth!

With the smoke still curling from the muzzle of his rifle, the soldier stared at the targets. With a half smile that conquered the bitterness of defeat, he turned and grasped Foster's hand.

As if at a prearranged signal, wave upon wave of frenzied cheering burst from the close drawn ranks of soldiers. They were good sportsmen, these Southerners, but more than that each man was a rifleman—burning with curiosity. How did this woodsman load?

They lifted Foster to their shoulders, then to a plank

(Continued on page 13)

An Editorial

Facing Facts

"The objects of this Association shall be . . . to encourage marksmanship throughout the United States, . . . for the purpose of qualifying as finished marksmen those individuals who may be called upon to serve in time of war. . . ."—NRA Bylaws.

THE BYLAWS of the NRA set it apart from all other national sportsmen's organizations in America. It is the only such group which has as its *primary* purpose the preparation of the men of America to serve their Nation better in time of War.

True, in peacetime the Association encourages small-arms competition purely on the basis of sport; it cooperates wholeheartedly with game conservation agencies and devotes much of its energy to assisting the shooter; and, in peace and in war, it combats all legislative proposals which would forbid the reputable citizen's use of a gun.

Equally true, these activities are *means to an end*. The *end* is the training of Americans to be better soldiers when they give up playing field and hunting field for battle field.

At least once in each generation American troops have gone into battle but only thrice has America approached *total* war. Ninety years intervened between Bunker Hill and Fort Sumter. Eighty years spread their haze of forgetfulness between Fort Sumter and Pearl Harbor. Understandably, America turns slowly from "small war" thinking to the mental acceptance of "total war." A few Americans and a few groups still think they can hold on to the good old days without hurting the war effort. Although the NRA was the first national sports organization to take *action* looking toward an all out war effort, no matter how much it might hurt, we, too, have our small percentage of members who lack the *total* war viewpoint.

Lend a high priced gun to teach some kid to shoot?

Share long hoarded match ammunition with some tyro who can't appreciate it?

Find recreation in teaching some pre-Pearl Harbor father to shoot instead of personally boring a few bull's-eyes or knocking down a few birds?

Hell no! There's plenty of guns and ammunition if those so-and-so's in Washington would just turn it loose! Look at the stuff I hear is piled up in Army warehouses!

Make ammunition available for hunting! Game is damaging crops. Shortage of metal? Shortage of man power? Bosh! They could find it if they wanted to!

Stop printing all this stuff about military weapons! I'm not interested! Thought this was a *civilian* organization!

These men buy War Bonds. They curse every striker who holds up production of munitions. They have sons in the Service. It just never occurs to them that there is no real difference between keeping shells off the battle line by *holding up* production or by *diverting* production to shooting for fun. It just doesn't occur to them that articles on military arms in THE AMERICAN RIFLEMAN reach thousands of officers and men who are unable to get hold of official manuals—and many of these men helped build the NRA and still look to it for help.

Largely *because* the NRA took the lead among America's sports organizations in thinking, planning, and *acting* in terms of *total* war it stands today at its peak in prestige in the minds of the American people and their governmental authorities. With thousands of its members in the armed Services it has nevertheless reached an all-time high in membership—proof that most Americans approve devoting our energies to winning the war first, worrying about sport later. When the war is won the strongest NRA in history will lead its membership into the greatest program of competitive and recreational shooting American sportsmen have ever enjoyed. *Until* that time we must face facts, no matter how unpleasant. We must share, and make the best of what we have in the spirit of sportsmanship of which we have so long boasted. As for the NRA, we will continue "to encourage marksmanship for the purpose of qualifying as finished marksmen those individuals who may be called upon to serve in time of war."—C. B. L.

Mallards

By W. M. GARLINGTON

THE OLD SWAMP ANGEL, stellar Memphis wild-fowler and long-range duck shot convinced me that it is best to lean toward extra power in both gun and ammunition.

He demonstrated that the three-inch shell is good medicine for the old greenheads of Mill Bayou—or of any bayou. And so after listening with attention and watching him shoot, I disposed of a pair of excellent Browning over-and-unders which I had used with excellent results for several years and replaced them with a pair of heavy double-barreled Winchester duck guns chambered for the long shell.

Both of these new guns have thirty-two-inch full choked barrels and are equipped with single triggers and ejectors. Gun Number One weighs seven pounds, fifteen and one-half ounces. Number Two weighs seven pounds, twelve ounces and is the best balanced, fastest handling duck gun I have ever had in my hands. The difference lies in the weights of the barrels. Those of Number One weigh three and one-half ounces more than those of Number Two. It seems to me that the slight additional stiffness given to the barrels of Number One by this additional weight may account for the fact that it shoots closer patterns.

Gun Number One has a stock with a pitch of about two inches, whereas that of Number Two, designed especially for timber shooting, has *no* pitch. Tossed to the shoulder with the barrels in a horizontal position, the butt of Number Two has a slight tendency to slip down as it comes into position. However, elevate the muzzle a trifle and this tendency disappears. When swinging after ducks at the heights at which they are generally shot in flooded timber, the no-pitch stock provides splendid support for the moving gun and permits a freer, easier swing. This is not theory, but is a fact born of the experience of masters in the art of timber shooting. Generally speaking, I do not like a stock with little or no pitch, and I was skeptical when the Swamp Angel recommended it. My first day's experience with the gun in flooded timber convinced me that he knew whereof he spoke. Such a stock is an aid in this shooting.

Gun Number One is an excellent long-range gun, if pattern-board results count for anything. Owing to the length of shot strings, such results are not always indicative of the pattern a gun will put into a given spot at the

s of Old Mill Bayou

split second the fast-flying duck occupies that spot. However, nice even pattterns on the pattern board do give one a feeling of confidence in both gun and ammunition. Poor patterns, on the other hand, might impose a mental hazard upon the shooter. I realize that this is dallying with theory, but theoretical considerations often have very practical effects. For example:

I know two top-flight trapshooters. A, a bit better at sixteen yards than B, had a run of 156 straight one day with a gun he wanted to sell. B was a willing buyer but, despite witnessing the run of 156 straight, insisted on patterning the gun. Such poor patterns resulted from the test that B refused to buy. Although he had seen A run 156 straight with the gun, he said he never would have any confidence in its shooting qualities, that its use would put him under such a mental handicap that he would be unable to do himself justice. Maybe so, maybe so! Quien sabe?

I patterned both of my Winchesters forty, fifty, sixty, seventy, and eighty yards. Gun Number One consistently shot the closer patterns. The targeting was done on thirty-inch squares of paper with an aiming bull approximately the size of a mallard duck drawn in the center. There was always some breeze blowing, quite a gusty one at times.

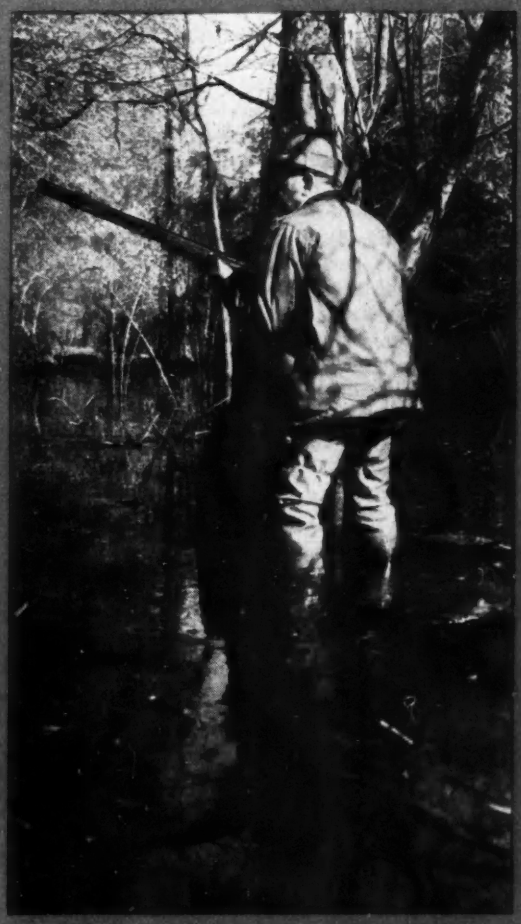
The patterning at seventy and eighty yards was primarily to satisfy my curiosity as to what the gun and the shell might do at such ranges. The results obtained at seventy yards with Gun Number One really were excellent and caused me to speculate considerably on the effect of the combination in the hands of an expert long-range shot on ducks at such a distance. Results at forty and fifty yards showed that unless the duck is somewhat "up in the air" it is likely to be badly torn by the heavy load.

Using the highly effective load of four drams of powder behind one and three-eighths ounces of copperized 4's (190 pellets to the load) the results with Gun Number One were as follows:

	Right barrel		*Left barrel*	
Range	*% of load*	*hits in figure*	*% of load*	*hits in figure*
40 yards.....	85	15	80	15
50 yards.....	(Can't find targets in my memos.)			
60 yards.....	62	7	59	5
70 yards.....	43	5	39	4

On all targets at these ranges there were hits that would class as probable wing- and neck-breakers in addition to the body hits. These were numerous up to and including sixty yards. At seventy yards, using one and three-eighths ounces of chilled 4's, the right barrel put only 28 per cent of the 190-pellet load on the paper, but twenty hits in a one-foot square in the center. The left barrel also put but 28 per cent of the load on the paper and sixteen hits in the one-foot square. Note the number of these center hits, despite the much lower percentage of hits on the paper as a whole and explain it if you can.

A number of freakish patterns were obtained with this particular chilled-shot load. At eighty yards, an average of 17 per cent of the 190-pellet load of copperized 4's found the paper. All shots sent at least two pellets inside of the figure, while some shots in addition to the body hits placed two or three that might have broken a wing. This gun, good shooter that it is, most certainly is not an



Most of us would get more ducks and leave fewer cripples if we limited our shooting to reasonable ranges. But even at reasonable ranges, the right gun and plenty of power helps.

eighty-yard gun, though it might possibly anchor a sitting duck now and then at this distance.

Using the same effective load of one and three-eighths ounces of cooperized 4's in front of four drams of powder, Gun Number Two performed as follows:

	Right barrel		*Left barrel*	
Range	*% of load*	*hits in figure*	*% of load*	*hits in figure*
50 yards.....	64	6	76	8
60 yards.....	52	5	38	6

Using the 2¾ inch shell and 3¾ drams of powder behind 1¼ ounces of copperized 4's (170 pellets to the load), Gun Number Two made the following record:

	Right barrel		*Left barrel*	
Range	*% of load*	*hits in figure*	*% of load*	*hits in figure*
40 yards.....	84	12	81	15
50 yards.....	63	7	61	10

This gun really shoots beautifully with this load.

Generally speaking, all patterns showed about the same average results, though there were variations from shot to shot at all ranges, something which seems to be a rather common occurrence in shotgun patterns. However, when using copperized shot the results obtained were always better than those obtained with chilled shot. The latter often showed considerable variation and irregularity, whereas the copperized shot generally gave uniform and even distribution.

Another thing I found when shooting for patterns was that the four drams, one and three-eighths-ounce load of copperized 4's holds its elevations to a remarkable degree. I do not know the velocity of this load *(about 1000 f.p.s. average over forty yards.—Ed.)* but I do know that at seventy and eighty yards I held the gun practically the same as I did at forty yards. There was no overholding, yet the patterns practically centered on the aiming bull at these ranges. While this load is plenty stiff, the recoil is not noticeable in my seven and three-fourths-pound gun when firing at ducks, even when shooting practically straight up. A perfect fitting no-pitch stock and recoil pad account for this.

While I did not pattern either gun with the four and one-fourth drams, one and five-eighths-ounce Magnum load, I did one day shoot seven stations of skeet with it, firing fifteen of these shells in Number One Gun. The recoil is rather unpleasant in an eight-pound gun, too unpleasant for me, and there is considerable "up-chuck" when the gun is fired. For this load, the velocity of which is less than four drams, one and three-eighths-ounce load, *(probably about 980 f.p.s. average over forty yards.—Ed.)* I would want a gun weighing not less than nine and one-half pounds, maybe more. However, any duck gun weighing more than eight pounds is too heavy for me to lug into the shooting grounds, so you are welcome to my share of these block-buster shells.

Pattern-board results indicate that in Gun Number One I have an excellent long-range gun; one which, in the hands of a talented long-range shot, might do pretty well at seventy yards on the straight-away range, at least if the shooter could put the center of the pattern on Mr. Duck as he heads for distant parts, and if the shot strings are as short as the shell manufacturer hopes, which they probably are not. However, seventy yards is a "far piece" for any 12 gauge shotgun, and few shooters can put a killing pattern on a hurrying duck at such a distance regularly enough to warrant shooting. So let's forget such long ranges and confine our shooting to ranges commensurate with our ability to hit a fast-flying duck. And for most of us this means inside of forty yards and then Mr. Duck must not be too high.

Most of us would eat more duck meat and leave fewer cripples to perish and rot in the shooting grounds did we learn to toot the duck whistle and to work the birds down to reasonable heights and to within forty yards before firing. Either do this or employ a caller for the purpose. Do either of these and the standard duck gun and two and three-fourths-inch shell will kill 'em as dead as the proverbial mackerel. If they can be worked down to very low levels and to within shorter ranges, as can be done when they are decoying readily, a more open gun and a load of three drams, one and one-fourth ounce of Number 7 chilled will pay off handsomely.

But in the hands of a proficient long-range duck shot (there are such and my friend the Swamp Angel is one) the big sky gun and the three-inch shell will give astonishing results. The combination will enable such a shooter to rake a limit from out of the stratosphere when it would be impossible for the same shooter to score regularly with the ordinary duck gun and two and three-fourths-inch shell. When referring to "the big, big sky gun," I have in mind the ten and one-fourth pound custom-built Becker Magnum type which, with its special boring, will outshoot any type of 12 gauge duck gun that I know of. But these guns are decidedly not for the run-of-mine duck shooter.

When shooting in flooded timber, it is often necessary to blast at the birds through thick treetops, even though they may have been worked down to tree-top levels and to within forty yards. For this reason I like heavy shot, copperized 4's. Such pellets have lots of punch after going through branches and foliage up to where the ducks are. For the past five years I have used nothing but copperized 4's when shooting mallards in flooded timber in Arkansas. I have killed plenty of birds, but have yet to render one unfit for the table because of using big shot. Now, enough about duck artillery!

I carried the Buckingham-Winchester (Gun Number Two) to Mill Bayou for its baptism. Already blooded, Number One had been more than satisfactory. However, I was keen to try out Number Two as its balance and fine shooting qualities (on the pattern board), especially when using the two and three-fourths-inch shell, had caused me to become particularly attached to it. I had a suspicion that, once I used it, it would become my favorite tool for greenheads. This proved to be the case, and I have used it since then to the exclusion of Number One, which goes along with me for use only in case an accident puts Number Two out of commission.

Shortly after sunrise a small bunch of mallards hove into sight and lost no time in investigating Albert's hails. They came in from behind, through thick timber, so we were fortunate to down one apiece. Ten minutes later Albert worked in another small bunch. After circling several times, they also came in from behind through the same thick timber. I almost cut a tree down with my first barrel, but downed a climbing drake by a quick snap shot with the second. Carl, too, downed one.

It was by now evident, with the breeze in its present position, that all decoying birds would come in through the thick timber to our rear, so I moved my position out alongside the trunk of a large half-dead tree, some

fifty yards distant. Here the water reached to well above my knees, and the footing was none too good. But I had excellent fields of fire to east, south, and west.

Now followed shooting of the sort that causes the duck shooter to give thanks that he is alive and afield. No rush of birds enveloped everything in sight, but singles, and little bunches spread along at intervals, all answered the call and decoyed perfectly. Albert is an excellent caller and knows how to handle mallards in timber. It was a treat to watch him work them down to low levels and then to within nice shooting distances. On our mettle, Carl and I kept up our end by doing some first-class gun pointing. Sometimes Carl got the shot, then I'd get it. At other times we'd both get shots. It all depended upon the number of birds and the way they came in. What sport was ours!

With so many birds awing, and in view of the way they decoyed, we should have cleaned up our limits before nine o'clock. Unfortunately, however, three other shooters had taken station too close to us, and they greatly interfered with our shooting. After Albert had them working perfectly, four times during the morning by actual count, our birds were frightened away by shots fired from this stand.

A large hen, as large as a big drake, answered the call and came in at high-speed, heading directly toward Carl who killed her stone dead about thirty yards out. Down she came, straight for Carl, who stood as if in a trance, holding out his right hand as if to catch the plummeting bird. Just in time, he jumped back, but the ensuing geyser nearly drowned him.

In downing my first six birds, I used nothing but standard duck loads of copperized 4's in the new timber gun and the way the combination folded them up was a source of great satisfaction to me. "Them ducks jus' hit de water an' floated." I was able to measure practically every bird and take it at tree-top level at not over forty yards.

I decided to try some three-inch shells in the gun. Just east of me, close to forty yards distant, stood a large tree of medium height with a thick umbrella-like top. A single drake answered the call, came down rather low, then made two very wide circles around us, purring to beat the band as Albert softly chattered to him. Then he tightened his circle and came by on the merry-go-round for the third time. He was on the far side of the big tree when I let drive. How far distant I don't know, but I do know that the four drams of powder in the long shell drove sufficient of the heavy charge of copperized 4's through that thick tree top and into his body to knock him down and hold him where he fell. Power is as power does, and there are times when a powerful load stands even a short-range shooter in good stead. One more bird fell to the long shell, then I switched back to standard loads.

About ten o'clock, Carl completed his limit by downing a big hen, as she swooped past him in the heavy timber—a nice shot. Five minutes later a small flock harkened unto Albert's hails and came sailing straight in to see what all the squawking was about. Straight toward me they came, just above the trees. The timber gun spat viciously, once, twice. Two greenheads folded up, hurtled downward, and landed on the water with resounding smacks. Our shoot was over.

Bad footing, but shooting to make the hunter's heart glad.

It was pitch dark, cloudy, and a bit foggy when we pulled out for home the following morning. Near Stuttgart, I glanced upward and there dimly silhouetted against the foggy murk of the coming day, were rippling lines of shadowy, long-necked forms. Mallards, they were, headed south on rapidly beating wings—headed toward the Mill Bayou!

Buckskin Rifleman

(*Continued from page* 8)

hastily laid across two water kegs, and clambered for an explanation. The hunter thrust his hand into his jacket. The men fell silent. From his pocket, Foster drew six well-pared rifle balls, shiny as agates. He held his hand high for all to see, and slid the bullets one by one into the sockets between his big bony fingers.

"Thar's how she's done, boys. 'Course it takes time t' grow pockets for t' hold 'em, but there's times when it's worth the trouble."

Practiced since boyhood, this method of carrying rifle balls had so warped Foster's hands that virtual pockets had been formed at the base of his fingers. These pockets concealed the balls, held them without effort, and gave him free use of both hands.

"You boys know, bein' hunters—some critters won't wait, if ye're slow in reloadin'. This way, jest tap yore hand on the muzzle and the ball rolls in!"

Suddenly embarrassed by so much talk, Foster leaped down from his pulpit. He was grinning shyly as Captain Forsyth met him. Forsyth's hand gripped Foster's paw.

"Join the company, Foster, and I'll pay you thirty dollars a month!" It was a handsome offer, but Forsyth's next words topped it. "What's more, by the eternal, you'll eat at my table! Is it a bargain?"

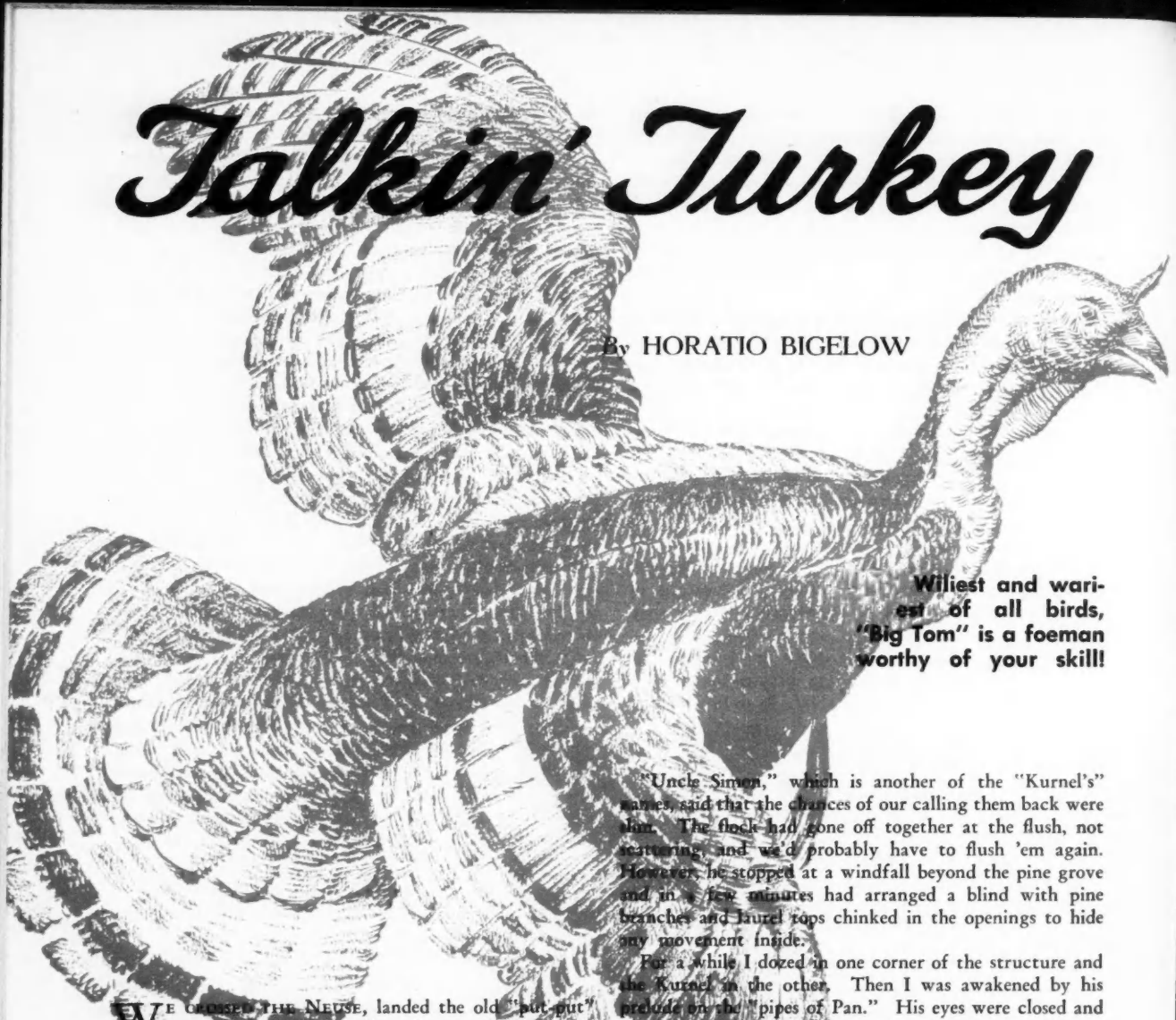
Foster's gaze rested for a moment on the rifles stacked before him. But there was the scent of an early Adirondack autumn in the air and the hunter's eye drifted off to the blue haze on the mountains. He shook his head. . . .

Benjamin Forsyth followed that receding figure with his eyes. He said softly, "Give me a regiment of riflemen like that—one regiment—and in close action I could decide the fate of a battle!"

It was a prophecy!

Talkin' Turkey

By HORATIO BIGELOW



Wiliest and wariest of all birds, "Big Tom" is a foeman worthy of your skill!

We crossed the Neuse, landed the old "put-put" opposite the lumber mill at the mouth of Adam's Creek, and climbed a dilapidated fence to the path leading up toward a thick stand of tall Carolina pine. Redbirds, a brown thrasher, a mockingbird flitted across the path, and perched on the branches of the myrtle bushes to watch and scold at us. A hidden Carolina wren warbled a greeting.

We had with us two turkey dogs, Teddy, a "native" setter and "Trixie." Teddy looked like a cross between an Irish setter and a Chesapeake Bay dog, but he was a worker. He was "making game" even before we had reached the woodland; but the "Kurnel" merely grunted, "patridges" and turned right to enter the pines.

Teddy left his "patridges" and both dogs disappeared straight ahead into a thicket of myrtle and gallberry. Suddenly, a sharp bark! Then the flapping of heavy wings—and dark against the bright sunshine five—no, six—great birds rose above the cover and sailed off for the heavy timber. Turkeys! I tried a load of number two's on them but they were out of range.

We followed the flock into the pines and as we stole quietly along the Kurnel whispered, "Watch out, you might see one settin' up on a limb." Shortly we came to one tall pine which had obviously been used as a roost. The pine straw beneath was white with droppings.

"Uncle Simon," which is another of the "Kurnel's" names, said that the chances of our calling them back were slim. The flock had gone off together at the flush, not scattering, and we'd probably have to flush 'em again. However, he stopped at a windfall beyond the pine grove and in a few minutes had arranged a blind with pine branches and laurel tops chinked in the openings to hide any movement inside.

For a while I dozed in one corner of the structure and the Kurnel in the other. Then I was awakened by his prelude on the "pipes of Pan." His eyes were closed and his features wore a rapt expression—like a great virtuoso regaling his audience. And Uncle Simon *was* a virtuoso with a turkey yelper, as I was later to realize.

Unlike most arias, however, this one had its high note at the beginning instead of at its ending. A long shrill "che-e-e-p" with a quaver or trill was followed by the "yawp, yawp, yawp" of a turkey hen. The Kurnel paused, then repeated the call. It had an eerie quality, that call. Goose pimples lifted up and down my spine. His eyes were closed, but Uncle Simon was alert. His eyes flipped open suddenly.

"Hear one?" he asked and called again.

An echo, I thought. But then it came again and I knew that it was the real "McCoy," a gobbler answering the Kurnel's call. And he was coming closer, coming swiftly through the myrtle that ringed the small clearing before our blind.

The Kurnel stopped calling. Then our prospective visitor was silent too. Doubtful, perhaps. The Kurnel put the yelper to his lips and called again. One short, soft cluck.

Things happened then. Two young turkeys, hen and gobbler, burst into the clearing to greet their kin. Uncle Simon lined up the hen, I picked the gobbler and, as the old darkies would put it, "Dey neber died so sudden b'fo'."

Sounds simple, doesn't it? But try it once. You'll find it's not simple at all. It's a very difficult matter to master the technique of the turkey yelper. It can't be done in a living room. But it can be done.

First, the hunter must know what sounds he must imitate. This requires long and close association with the birds themselves in their own homes and environment. Only in this way can he learn firsthand the language of the turkey. He must learn to understand "turkey." He must learn the calls of the young and those of the adults. He must know those of the hens from those of the gobblers. And he must know the seasonal variations of the calls. He must learn the seductive notes of the mating birds, the warning cry of startled birds, and the inquiring tones of lonesome birds as a scattered flock reassembles.

When all this has been learned, the turkey-hunter-to-be then must learn to "*talk* turkey." He must select from all the different devices for making turkey talk the one which is most suitable for him. He should select his instrument with care and deliberation and then, when he has made his choice, he should forsake all others and forever hold himself unto this one call. This is analogous to the old adage, "beware of the man with one gun." "Turkeys, beware of the man with one turkey caller!"

Uncle Simon, W. Everitt of Oriental, North Carolina, the Kurnel, as he was usually called, was my first preceptor in the art of turkey calling. He was a small man with a bushy chestnut beard and sleepy blue eyes who could yelp a turkey out of the atmosphere. He had lived a long life in or near turkey woods and knew those grand birds as few men ever learn to know them. He'd had far more opportunity than most to learn to know them and he'd taken advantage of it.

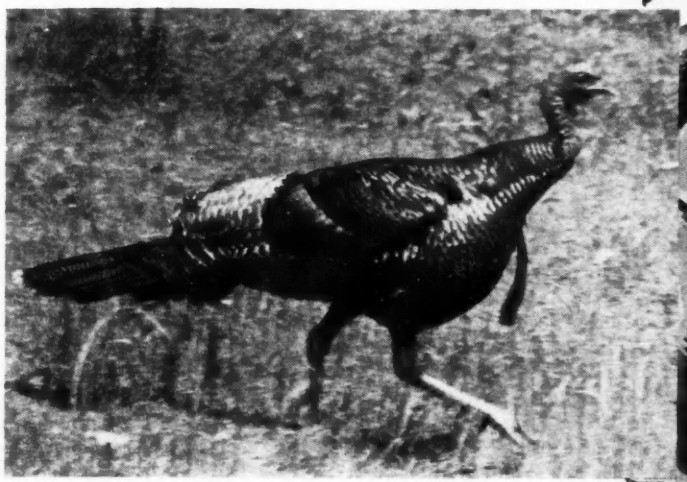
The Kurnel used a yelper of his own manufacture. The mouthpiece was the wing bone of a wild hen turkey. This is the smaller bone in the second joint. The inside was thoroughly cleaned out and the outside carefully scraped and smoothed with sandpaper. The ends were trimmed off square. Two short joints of well-seasoned cane such as is frequently used for pipe stems in the South were fitted to the smaller end of the bone. The joints were made tight with glue and ringed with ferrules usually made of spent .22 caliber shells.

"Pat" Lowndes, a famous South Carolina hunter, gave me a beautiful yelper which was my favorite for a long time. Its ferrules were made of silver, one of which was engraved with my initials. I lost this yelper by not taking the precaution of fastening it to my shooting jacket with a rawhide thong.

With this wing-bone call the expert can imitate the complete vocabulary of the young turkey hens and the gobblers. He can also get the shrill kee-kee-kee of the young birds which is so deadly in the early part of the fall hunting season. Later in the season comes a coarser kee-kee-kee and the yelp of the young gobblers.

"Mek the kee-kee-kee with jes' yo' lips, suckin' in yo' bref," said the Kurnel. "Many's the turkey I've called up jes' thataway. Yu' mek it with one long bref. Then yu' use yo' yelp. The hen yelp should be sma't and snappy, like yu' was a-kissin' the caller. The gobbler yelp is longer an' mo' time between yelps. Cup yo' han's over the caller to control th' tone and volume. Don' call too much, and only three, fo' yelps each time."

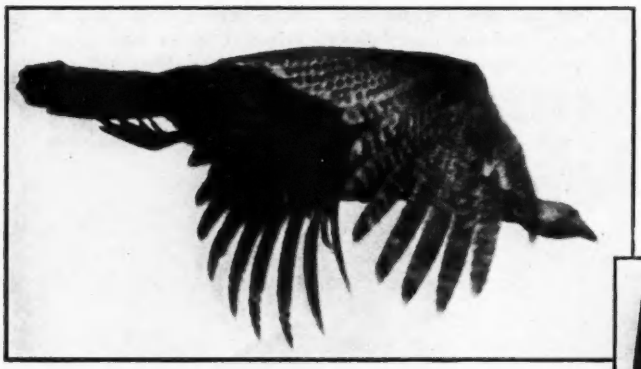
The box call is used by many successful hunters, among whom is Archibald Rutledge who holds a "summa cum



Opinions differ as to the value of the domestic turkey hen in calling wild turkey. Some find it successful; some don't.

laude" degree as an expert in its use. The variety of these calls is legion but after much experimentation I have chosen one made by Tom Turpin of Memphis. This is made of applewood and is seven and one-half inches long, two and one-half inches deep, and one and one-half inches wide. The imported snakewood top is attached to the box by a screw so adjusted that the handle can be tilted to strike the edge of the box at an angle. This call in capable hai. 's will produce all the calls of the turkey tribe including that of the gobbler which, in combination with the yelp, is deadly to young gobblers when all other methods fail.

There are two ways of calling turkeys, aside from the use of mechanical yelpers. One is by means of mouth only and the other by utilizing the seductive wiles of the



domestic turkey hen as a decoy. In over twenty-five years of turkey hunting I've known only two men who could really call turkeys with their own mouths unaided by mechanical devices. It's difficult, and it's a rare man who can do the job properly.

There is much difference of opinion as to the value of the domestic turkey hen in calling wild turkeys. Some hunters like them and some don't. Some have success and some don't. In Virginia my success has been nil, but once in South Carolina it paid dividends.

I was hunting with John Flowers, the colored preacher at Fairlawn, near the head of the Wando River. John had toted a gaunt, domestic turkey hen, "Delilah," out to the blind where he tethered her by means of a thong.

Sitting there in the blind I took brief stock of my companion. Old John was a long, lean negro. White wool stuck out of a dozen holes in his ancient and greasy felt hat. His ebony face was patched with straggly amber-white wisps of beard, and his bare, splayed toes wriggled about on the floor of the blind like a handful of night crawlers. He munched contentedly on a huge chaw of Battle Ax plug I had provided. John was a typical southern darky of the old school at a favorite occupation. He was good company.

Sliding down the western sky, the sun had dropped below the tree tops, and if we were going to get a break it was mos' time. Hark, a distant whimper, soft yet vibrant, in the northeast. I know that appealing note. It's "Hard Times," peerless cold trailer of the Fairlawn pack. Some of my clubmates have put on a deer drive before "grub pile." Another whimper and yet another! Then a sudden clamor makes the welkin ring. They've jumped! A slight cry! The wild music grew nearer and I slipped a speed load of "double oughts," buck into the right barrel in place of the turkey load to be ready for that buck when he "flashed." Then the wild melody swung to the east and faded in the distance.

Suddenly John touched me softly on the shoulder and pointed to a clump of hardwood near by. There a flying bulk crashed through the dry twigs to alight on one of the skeleton branches.

Damn! The hounds had flushed the gang we were awaiting. If that drive hadn't come through, those turkeys would surely have come to us. Now that bird was completely out of range. And so near roosting time he wouldn't leave his perch if he could help it. My hopes departed up Salt Creek!

But after casting an appraising glance over the situation, "Delilah" took over. She uttered her siren call, "yawp-yawp-yawp, yawp-yawp-yawp." But to these dulcet strains the "percher" paid no heed. Things seemed hopeless. There was just a bare chance that I might slip up at dusk and pick that bird off his roost, but——

——what was that? We froze in the blind. There it was again! Directly in front of us a lusty, "gobble-gobble," came out of the darkness. We held our breath. The hackles rose on our necks. A great gobbler slipped out of the brush fringing the little clearing on my right. A last flicker of the setting sun sifting

Typical turkey "yelpers." One box call; one thinner box with slate scraper; one slate slab with stick scratcher; three hollow wing-bones, one with tube and horn amplifier.

down through the forest giants burnished him with green and gold as he came swiftly across the clearing and, quietly, slowly, I raised my gun to my shoulder.

Then, disaster! With a terrific crack the rotten log on which we were sitting crashed. John Flowers landed in a heap. I managed to keep my feet and tried vainly to draw bead on that bird. But he had wheeled and darted out of that clearing like a bullet. I finally fired but there was little hope that those "double oughts" meant for a buck would ever touch that gobbler. They didn't. He vanished from view.

But turkeys make mistakes, too. Not often but some-

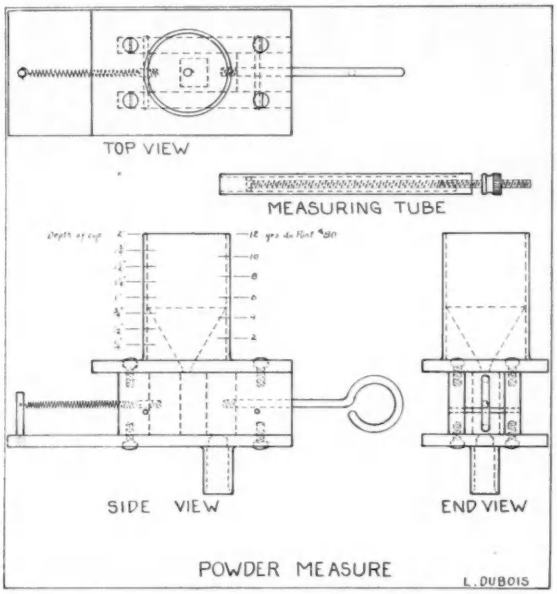
(*Continued on page* 37)

Home Made Powder Measure

By LLOYD Du BOIS

THE SCRAP STEEL PILE of any machine shop will probably furnish all the material needed. Get two pieces of flat cold-rolled steel, one piece 3/16″ thick and 2″ wide, to serve as top and bottom, and one piece 3/16″ thick and 1″ wide to serve as the sides of the measure. From the same scrap pile, get a block of steel ⅝″ by 1″ by 1⅜″ from which to make a charger reservoir.

In making the charger reservoir, a round hole ⅜″ in



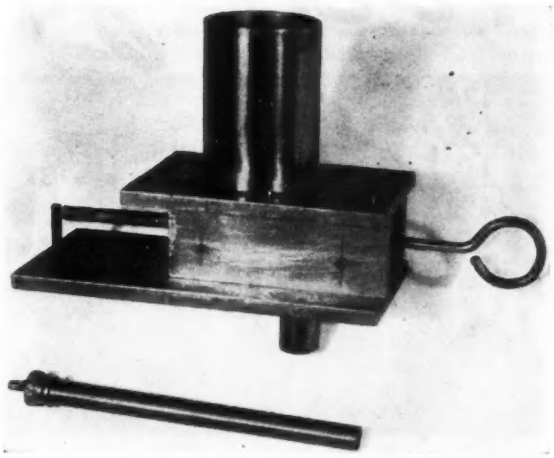
diameter is first drilled entirely through the block; this hole is then enlarged to a rectangular shape with a file until it will hold slightly more powder than the largest amount to be loaded. After doing this, the top, bottom, and sides should be squared up and polished. The pieces of flat cold-rolled steel are then laid out, cut to size and drilled as shown in the drawing.

The top edge of the hole leading from the powder hopper is bevelled slightly with a file to facilitate the flow of powder. The hopper itself can be made up from a piece of large brass tubing or even a round tin can with the bottom cut out. The hopper is centered over the feed hole and soldered fast.

The hole for the powder outlet is drilled from the bottom side to within 1/32″ of going through, using a 5/16″ drill. The hole is then completed with a 3/16″ drill. A short piece of brass tube with a 5/16″ diameter hole is then centered over the outlet hole and soldered fast; this piece will act as a guide for the measuring tube.

If trouble is experienced with the flow of powder it may be remedied by placing a small funnel-shaped piece of thin sheet copper in the bottom of the hopper.

Holes are drilled and tapped in the front and back of the reservoir. A piece of ⅛″ brass rod is bent to the shape shown in the drawing, and one end threaded. This is screwed into the front hole in the reservoir and serves as a handle for operating the measure. A small pin with



Home made powder measure cuts cost of reloading tools.

a hole drilled through it is screwed into the back hole of the reservoir. A spring is stretched between this pin and a second one placed far enough back on the base plate so that the charger reservoir will always return to its normal position under the hopper. The horizontal travel of the reservoir is limited by drilling holes through the sides of the measure and inserting two small lengths of 1/16″ drill rod.

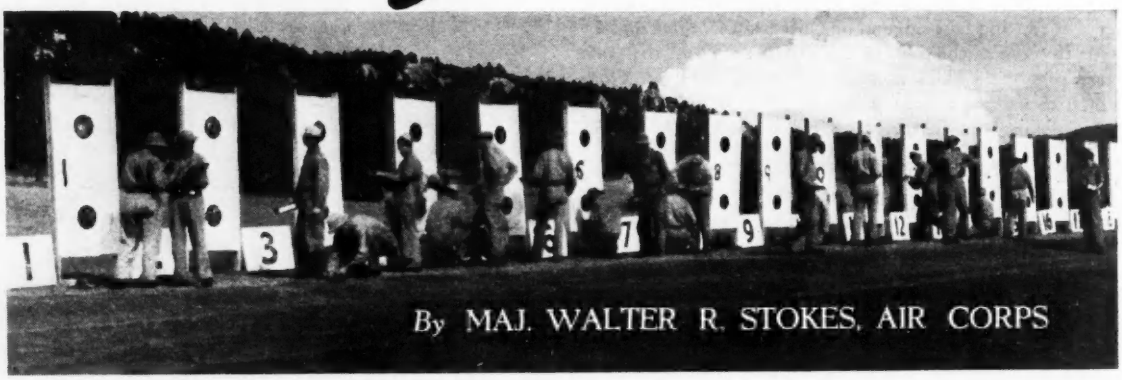
The measuring tube consists of a hollow brass tube with an adjustable plunger so that the capacity of the tube can be varied to throw different weights of powder. It is made from a piece of brass rod just under 5/16″ diameter with a 7/32″ hole drilled to within ¼″ of one end. Before drilling, a piece about 1/16″ long should be cut from the rod. This piece should later be reduced in diameter until it will just fit into the hole in the measuring tube. The lower end of the measuring tube is then drilled and tapped with a 6-32 thread; next a ⅛″ diameter piece of brass rod is threaded for a distance of about 4½″ with a 6-32 die. The small 1/16″ piece is soldered on one end of this rod to act as an adjustable bottom in the measuring tube. The whole thing is then assembled as shown in the photograph. A nut from an old binding post will serve as a lock to keep the setting fixed.

A solid rod that will fit into the measuring tube is squared off at one end and marked by means of a file with a series of marks evenly spaced, about ¼″ apart.

The measuring tube is calibrated by setting the plunger at several different depths and actually measuring the charge thrown; about three weighings should be made for each different setting of the tube. A calibration curve as shown can be drawn by plotting the charge thrown against the depth of the tube in fractions of an inch. Of course, a separate calibration will be required for each type of powder used. Amount of powder in hopper has no effect on weight of charge thrown.

This measure will throw successive charges with a variation of less than 0.1 grain. As a matter of fact, tests show a maximum variation over eighteen separate weighings of less than 0.05 grain.

The Carbine Fires for Record



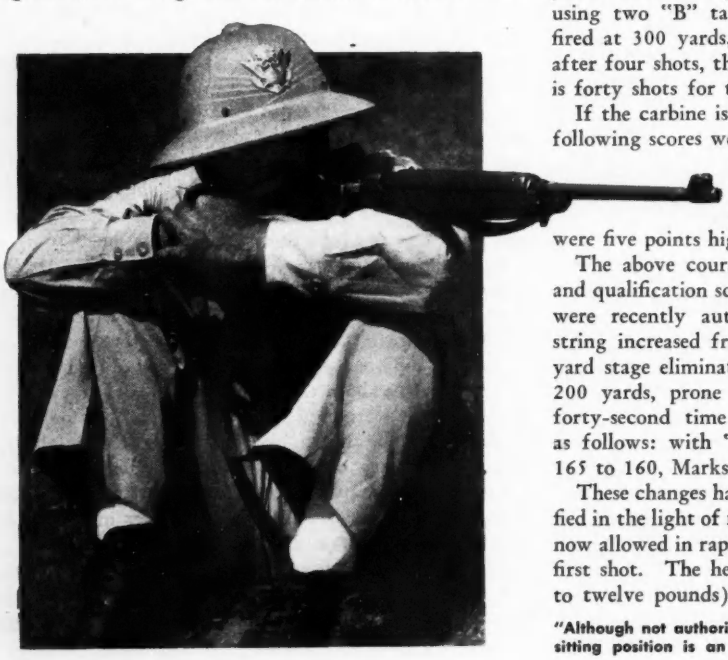
By MAJ. WALTER R. STOKES, AIR CORPS

THE PURPOSE OF THIS REPORT is to comment upon the much publicized M1 Carbine's recently demonstrated range performance. Its functioning in battle is another story, a story being written upon many fields of combat.

Our report concerns the range work done with the carbine at Luna Army Air Field, Replacement Center of the Air Transport Command, Las Vegas, New Mexico. The carbine is the principal weapon of the Air Transport Command, so its use has been stressed in weapons training at Camp Luna. We have been firing this weapon at Luna for only a few months, but have had enough experience to justify an early range report.

We fire the carbine at the end of a three weeks' training period. Its use is preceded by fairly thorough small-arms training, with both Springfield and .22 caliber rifles.

Qualification firing with the carbine introduces some features novel to the experienced military rifleman. The qualification table first prescribed called for the following course of fire: At 100 yards, using two "A" target centers (four and five rings only), shooter starts with four shots in magazine, butt below the shoulder. At command "Fire," the piece is raised and four shots are fired on one target in the standing position. The firer then changes clip and fires four more shots on the other target from the squatting or kneeling position (optional). The total elapsed time is thirty-five seconds for the eight shots, including change of clip and of position. This procedure was repeated at 100 yards except that in the second run the last four shots are fired in the sitting position instead of squatting or kneeling. A total of sixteen shots is fired at 100 yards. Sixteen more shots are fired at 200 yards, same timing and same positions as at 100 yards, using two "B" target centers. Finally eight shots are fired at 300 yards, standing to prone, with clip change after four shots, thirty-five-second time limit. The total is forty shots for the course, a possible 200 points.



If the carbine is equipped with the "L" type sight the following scores were necessary for qualification: Expert 175, Sharpshooter 165, Marksman 145. When the carbine is equipped with the adjustable sight qualification scores were five points higher in each grade.

The above course of fire was found to be too severe and qualification scores too high; so the following changes were recently authorized: Time limit per eight-shot string increased from thirty-five to forty seconds; 300-yard stage eliminated with substitution of eight shots at 200 yards, prone to standing, one "B" target center, forty-second time limit; scoring requirements changed as follows: with "L" sight, Sharpshooter lowered from 165 to 160, Marksman lowered from 145 to 135.

These changes have been found to be fair and well justified in the light of range experience. The extra five seconds now allowed in rapid fire gives needed time for an accurate first shot. The heavy trigger pull of the carbine (eight to twelve pounds) makes a smooth trigger release diffi-

"Although not authorized by the military, the sawbuck sitting position is an excellent one for the carbine."

cult on the first shot. This heavy pull is not so troublesome after the firing is under way. With the non-adjustable "L" type sight 300-yard firing gave a lot of trouble because the wind whips the light carbine bullet about at that range and very wide "holding off" was often necessary.

The course of fire as now prescribed is, we think, an excellent and reasonable test of skill in the use of this firearm. In demonstration firing before classes our instructors score consistently above 190 x 200 and about 75 per cent of trainees make qualifying scores after only two days' preliminary firing. This as compared with 97 per cent smallbore qualification (Course F) and 90 per cent Springfield qualification (Course C) by the same classes. It is expected that as the weapon becomes more familiar 90 per cent of trainees can be qualified.

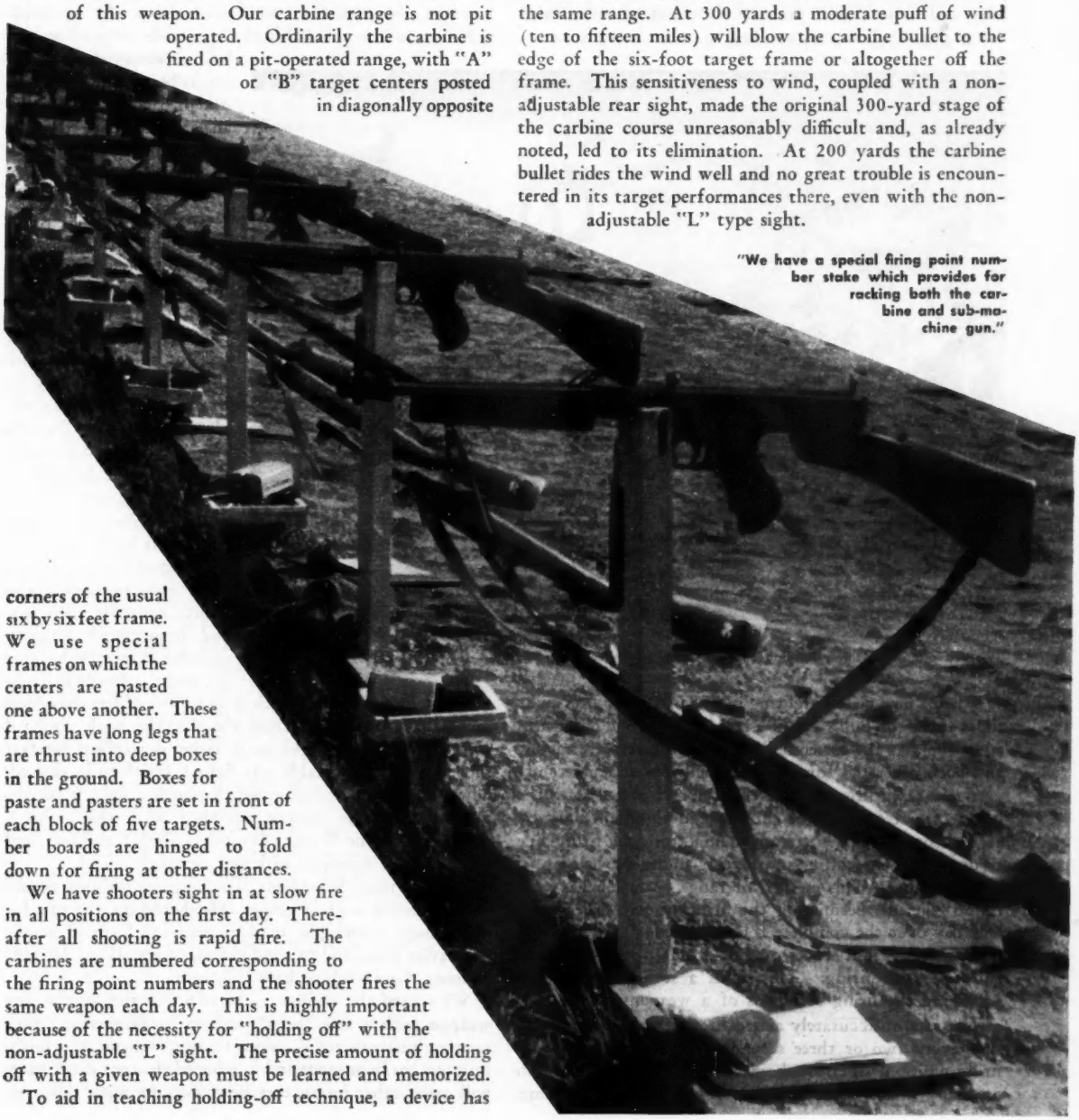
In our carbine layout at Camp Luna we have several features that will interest others who instruct in the use of this weapon. Our carbine range is not pit operated. Ordinarily the carbine is fired on a pit-operated range, with "A" or "B" target centers posted in diagonally opposite corners of the usual six by six feet frame. We use special frames on which the centers are pasted one above another. These frames have long legs that are thrust into deep boxes in the ground. Boxes for paste and pasters are set in front of each block of five targets. Number boards are hinged to fold down for firing at other distances.

We have shooters sight in at slow fire in all positions on the first day. Thereafter all shooting is rapid fire. The carbines are numbered corresponding to the firing point numbers and the shooter fires the same weapon each day. This is highly important because of the necessity for "holding off" with the non-adjustable "L" sight. The precise amount of holding off with a given weapon must be learned and memorized.

To aid in teaching holding-off technique, a device has been prepared for class demonstration. This device is used to illustrate to classes all the ordinary holding-off problems and it has proved most valuable.

All our range carbines are carefully "zeroed" by expert shots before being placed on the firing line. It has been found that the point of aim with the average well "zeroed" carbine will be at the lower edge of the ten-inch bull's-eye at 100 yards and just above center of the twenty-inch bull's-eye at 200 yards, using the 200-yard arm of the "L" sight. At 300 yards the 300-yard arm of the sight is used and the average point of aim is about two feet below the twenty-inch bull's-eye. To express this in another way it appears that the carbine bullet drops about six inches in 200 yards and about three and one-half feet at 300 yards.

In 300-yard firing the carbine bullet has been found to be highly sensitive to the effect of the wind, being deviated two or three times as much as the M1906 bullet at the same range. At 300 yards a moderate puff of wind (ten to fifteen miles) will blow the carbine bullet to the edge of the six-foot target frame or altogether off the frame. This sensitiveness to wind, coupled with a non-adjustable rear sight, made the original 300-yard stage of the carbine course unreasonably difficult and, as already noted, led to its elimination. At 200 yards the carbine bullet rides the wind well and no great trouble is encountered in its target performances there, even with the non-adjustable "L" type sight.



"We have a special firing point number stake which provides for racking both the carbine and sub-machine gun."

Our course of carbine instruction at Camp Luna calls for preliminary disassembly of the piece to get the beginner acquainted with its mechanical features and operation. This disassembly instruction is carried out with a number of old mess tables as work benches. The carbine has proved itself mechanically simple and recruits have no difficulty with this phase of instruction. The present generation of shooters is so familiar with internal combustion engines that the carbine's gas operation is very easily understood by them. This analogy is dwelt upon by the instructor and appreciated by the pupils.

At Camp Luna we have worked out some details of firing line technique that make the handling of the carbine easier and safer. We have a special firing point number stake (see photo) which provides for racking of both the carbine and the Thompson sub-machine gun. A small platform box is provided at each firing point for carbine clips and ammunition, to keep these out of the sanded firing point. Weapons are racked when not in use.

"To aid in teaching holding-off technique, a device was prepared for class demonstration."

When a new class is sighting in, the first order fires eight shots at the top bull's-eye of a frame, the second order fires eight shots at the lower bull's-eye, then pieces are racked and both orders go forward to check hits and paste targets. In rapid fire targets are scored and pasted after the firing of sixteen shots (eight top and eight bottom) by each shooter, the shooters advancing from the firing line to do their own scoring and pasting under supervision of block coaches. This method of range operation has been found efficient, permitting the firing of five orders in a half day over the complete forty-shot course. It has the great merit that it leaves our pit-operated range free for full time rifle firing. This cures a severe headache in arranging the firing schedules of a weapons school.

The rate of accurately aimed fire with the carbine is a shot every two or three seconds, once the shooter is in firing position. This has been checked with a stop watch on many firers. The first shot always takes more time, chiefly because of the extremely heavy trigger pull.

The carbine has a negligible recoil and no injuries to shooters are observed. Nevertheless considerable flinching occurs. Most of this is due to anxiety on the part of the shooter. The usual rapid rate of fire induces tension and jumpiness. The heavy trigger pull also contributes to flinching.

The carbine is fired in the standard positions, without use of the sling. It is noted that a firer with a good sitting position can often hold better in this position than in the prone position. In all positions greater steadiness is obtained if the left hand is well back. This decreases muscular tremor. Although not authorized by the military, it is believed by us that the saw-buck sitting position (see photo) is an excellent one for the carbine and steadier than any other. We advocate its authorization. The squatting position was recently authorized as optional in place of kneeling and we prefer it for most trainees. In the standing position it is noted that the firer tends to lean forward but it is observed that holding is better if the weight is kept back on the heels in an erect posture to take tension off leg muscles. In the sitting position the low, cross-legged position has given best results.

The use of the gun sling is not authorized for record firing but it is feasible to use it in field firing, employing the hasty sling style of adjustment. Also the carbine sling may be let out and wrapped a complete turn about the left arm, giving about the same support as the loop sling.

Among the strong points of the carbine are the following: It has slight recoil and tremendous fire power. It is easy to handle and points naturally. Weapon and ammunition are both of light weight. It has fine accuracy. At 200 yards, ten-shot groups with a vertical dispersion of less than four inches have been fired from the shoulder with standard metallic sights. Its sight combination is excellent for fast shooting. An adjustable rear sight is much to be desired, however, and we are informed that such a sight is now in production. The carbine equipped with this sight is designated as the M1A2. Doubtless all M1 carbines will eventually be equipped with this new sight.

It is felt that the soldier's basic weapons training should not be limited to the carbine. He should fire the rifle for sound basic training in marksmanship to learn to handle its heavier recoil and to learn the use of the sling. Carbine training should follow basic rifle work.

We regard the carbine as an effective and satisfactory weapon with a few "bugs" still to be eliminated. Our training methods are also open to improvement, but much progress has been made and it is hoped that our experiences will assist other instructors now working with this arm.

Those 8 M/M's

By R. T. MITCHELL

INFORMATION CONCERNING the German 8 m/m cartridge is too often mixed in with misinformation and nonsense. Ludwig Olson's excellent articles in the October, 1941, and January, 1942, issues of THE RIFLEMAN help indirectly to clarify the situation. This is an attempt to clarify still further the facts with particular reference to the 8 m/m cartridge itself.

The fact is that there are several different 8 m/m cartridges and different rifles designed to handle them. It is the failure to understand this, here in America, that has given rise to most of the confusion. German 8 m/m cartridges which are little known in the U. S. include the 8x48R (the 48 indicates case length in m/m, and the R stands for Rimmed), the 8x58R, and the 8x72R which are straight case cartridges of moderate power. Other unfamiliar shells are the 8x51 Short, the 8x60, the 8x64, and the 8x75. The last three of these are also made in rimmed cases for double-barrelled rifles. The 8x60, which is similar in performance to the .30-'06, is occasionally seen in this country in Oberndorf Mausers.

These are bullet weights and velocities for some of the loads of the above cartridges as published by D. W. M. (Deutsche Waffen-und-Munition Fabriken in Berlin.)

	Bullet Weight		*Velocity*	
Cartridge	*Grams*	*Grains*	*Meter/sec.*	*Foot/sec.*
8x48R	12.7	196	530	1738
8x58R	12.7	196	560	1836
8x58R	10	154.3	624	2046
8x72R	14.7	226.9	585	1959
8x72R	11.6	179	680	2230
8x72R	12.7	196	660	2165
8x51	10	154.3	630	2066
8x60	14.7	226.9	695	2287
8x60	10	154.3	890	2919
8x60 Magnum	12	185.2	860	2812
8x64	14.7	226.9	748	2453
8x64	10	154.3	871	2856
8x75	14.7	226.9	791	2594
8x75	10	154.3	878	2879

We come now to the more familiar 8x57 Mauser which, in the 'S-Caliber' loaded with a 197.5 gr. boattail at 2576 f/s, is the present service cartridge of the German Army. The 8x57 was originally loaded with a 226.9 grain round-nosed bullet of .318" diameter for the Model 1888 Mannlicher Magazine Rifle. This now obsolete service rifle of the German Army is most often seen in this country in the form of the 18" carbine. The bullet was driven at about 2076 f/s by 38.6 grs. of leaf powder. The Mod. '88 has a land diameter of .311" and a groove diameter of .3205".

Using Col. J. S. Hatcher's rule for bullet fit in high-powered rifles with four narrow lands and four wide grooves, which is that the bullet diameter should be .0015" to .002" greater than ¾ the groove depth, times two, plus the land diameter, we find:

8 m/m Mod. '88 bullet dia. = variously given at .317" & .318"
Mod. '88 land dia. = .311"
¾ of .0047" groove depth = .003525" × 2 = .00705" + land dia. = .31805"

Thus the bullet is .00005" to .00105" less than the formula result. For proper fit the reverse should be true.

Our first source of 8 m/m confusion arises from the fact that the Mod. '88 rifle travels under an amazing number of aliases. It is known as the Mannlicher (which it really was) Mod. '88, Mauser Mod. '88, Mannlicher-Haenel, Schilling-Mannlicher, Schilling-Mauser, and even Sauer-Mauser.

When the familiar Model 1898 Mauser was adopted it was chambered for the cartridge just described, and its inside barrel dimensions were the same as those in the Mod. '88. In the first years of the century it became

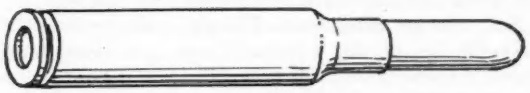


Fig. I. 8 m/m Mauser Model '88 226 Gr. Metal Jacket

apparent that a lighter, pointed bullet at higher velocities was desirable from a military standpoint. Accordingly, in 1905, the 154.3 gr. Spitzer bullet was adopted. This was designated in Germany as 'S-Caliber'. With the new cartridge the groove diameter of the barrel was increased from .3205" to .325" while the land diameter remained .311". To match this the diameter of the projectile was increased from .318" to .323".

There are three reasons proposed for this change. First, that the deeper grooves provided a greater bearing for the short-bearing 154-gr. bullet, thus avoiding stripping the jacket. Second (and a practical military consideration), the higher lands will stand up much longer under the scouring erosion of high pressure gas. Third, a solution had to be devised to fit the new short-bearing bullet to the long throat of the earlier rifles which were to be altered. Deepening the grooves and tapering the throat more sharply in combination with a bullet of slightly greater diameter accomplished the desired result. Reference to Fig. II will help clarify this.

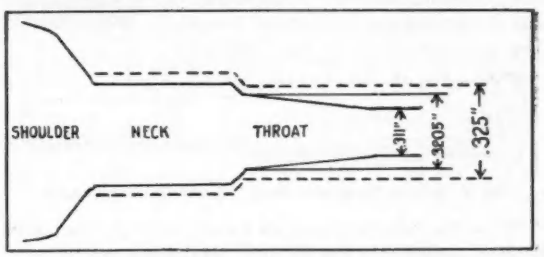


Fig. II. Chamber Alterations of the 8 m/m in 1905
Solid lines show chamber for Mod. '88; dotted lines indicate metal removed in changes to dimensions of 'S-Caliber'

This new cartridge was a considerably heavier load, 49.5 grs. of leaf powder driving the projectile at 2882 f/s. Even without this increase in power, the increased bullet diameter would make the S-Caliber definitely unsafe in the old barrel dimensions, especially since the old '88 Mannlicher does not have a margin of safety comparable to that of more modern rifles.

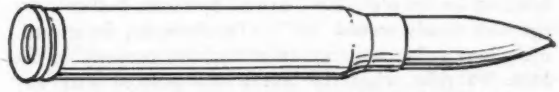


Fig. III. 8 m/m Mauser, S-Caliber. 154 Gr. Metal Jacket Spitzer

Returning to Hatcher's formula we find:

8 m/m S-Caliber bullet dia. = .323″
S-Caliber land dia. = .311″
¾ of .007″ groove depth = .00525″ X 2 = .0105 + land dia. = .32150″

Here the bullet diameter is .0015″ greater than the formula result, which is as it should be.

There are two cartridges both loosely called "8 m/m Mausers". The Mod. '88 cartridge can be safely, if not too efficiently, used in the S-Caliber barrels; the reverse is not true. Another source of difficulty arises from the fact that, just as there are a few Springfield .30-'03 rifles in this country which escaped conversion to the 1906 cartridge, so there are issue Mod. '98 Mausers which are bored and chambered for the pre-1905 cartridge.

Still another misunderstood point is that of the 7.9 m/m Mauser vs. the 8 m/m Mauser. It is sometimes stated that the Mod. '88 is or was designated as 7.9 m/m and that the new larger bullet is the 8 m/m. This is not true. The land diameter, for which the caliber is named, is .311″ or 7.9 m/m in both barrels. Military rifle barrels are stamped 7.9, but the 7.9 m/m is commonly known as the 8 m/m.

The 8x56 Mannlicher-Schoenauer, formerly called the 8.2x56 Mannlicher-Schoenauer, is 1 m/m less in case length and the neck is slightly differently placed than in the 8 m/m Mauser. The 8x56 or 8 m/m Mannlicher-Schoenauer, as it is labeled in this country, is intended only for the Mannlicher-Schoenauer rifle made by the Steyr Werke in Austria, and is under no circumstances interchangeable with 8 m/m Mauser cartridges.

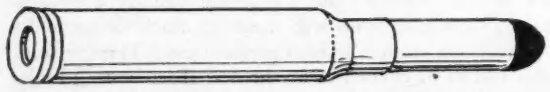


Fig. IV. 8 m/m Mannlicher-Schoenauer Mod. '08, 200 Gr. Soft Point

There is another 8 m/m Mannlicher cartridge. This cartridge is the 8x50R which has a fat rimmed case with a long, ogival slug of 243 gr. It is the service cartridge for the Mod. '95 Straight-Pull Mannlicher which was the service arm of Austria-Hungary in World War I. The specimen I have at hand measures .323″.

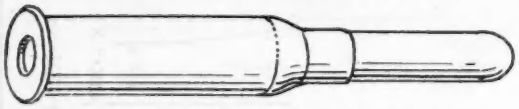


Fig. V. 8x50 R. Mannlicher Mod. '95, 243 Gr. Metal Jacket

When we turn to American 8 m/m cartridges we find nothing to brighten the picture. Following are abbreviated ballistics as published by the manufacturers themselves, all marked 8 m/m or 7.9 m/m.

Maker	*Cartridge Designation*	*Bullet Wt.*	*M/V*	*M/E*
Rem-UMC	Mauser & Mann. .	236 gr.	2130 f/s	2380 f/lb.
Rem-UMC	8m/m (7.9) Special	170	2500	2360
Peters	8m/m Mauser	170	2500	2360
Win.	Super-Speed Mauser	170	2540	2430
Peters	Mann.-Schoenauer	200	2105	1965
Western	Mann.-Schoenauer	200	2167	1920

The 236 gr. Rem-UMC cartridge is pretty definitely designed for the old .3205″ barrel. Specimen bullets average very closely around .317″. Furthermore, the exceedingly long bullet will not even function properly in the Mod. '98 rifle; when the bolt is manipulated with any speed the nose of the cartridge coming up from the right-hand side of the staggered column in the magazine strikes against the left side of the rear edge of the chamber, and if it does not jam solidly a sizable piece of lead is sliced off the tip as the cartridge goes on into the chamber. This difficulty does not arise, of course, with the archaic vertical column magazine of the Mod. '88.

Fig. VI. Rem-UMC 8 m/m Mauser & Mannlicher 236 Gr. Soft Point

The box in which the 8 m/m Special is packed is marked, with masterful ambiguity, "These cartridges are adapted to Mauser and Mannlicher rifles." Specimen bullets at hand mike .3227″, very close to proper diameter for S-Caliber barrels. Indicative of the nonsense that circulates regarding the 8 m/m, a large American gun house says in its catalog of the 8 m/m Special, "Oversize cartridge, made for chambers that are worn or oversize." This is all part of the popular misconception that enormous tolerances are allowed in German 8 m/m barrels and chambers, and comes from comparing dimensions of pre-1905 and S-Caliber rifles as if they were designed to handle the same cartridge.

There are, it is true, actually oversize chambers and badly headspaced guns; these are junk slapped together from components found in various arsenals in post-war Germany. Even wartime Mausers were properly constructed mechanically and by no means should be blamed for the sins of improperly assembled guns intended for the "sucker trade". The Mod. '95 Winchester tended to develop excess headspace with the .30-'06 cartridge, but I have never heard anyone condemn the Winchester Models 54 or 70, or the cartridge, on this account.

Fig. VII. Rem-UMC 8 m/m Special

A Peters 170-gr. projectile I have here mikes .3205″, and it is said that it was intended as a compromise. Supposedly it has a thin soft jacket on the theory that it will swedge down for the .3205″ barrel and upset sufficiently to seal the .325″ barrel.

D.W.M. lists a 154-gr. sporting load at 2797 f/s and a 185-gr. load at 2542 f/s, both for the S-Caliber. Many sporting rifles were made for the pre-1905 8 m/m; numerous loads are listed *separately* for it.

The Western 200-gr. bullet for the 8 m/m Mannlicher-Schoenauer is .3228″ in diameter. For some inexplicable reason the cartridge head is marked merely "8 m/m" with nothing to distinguish it from other 8 m/m cartridges . . . so be careful! The M-S cartridge will chamber in the 8 m/m Mauser rifle but does not headspace properly. You will not enjoy having the doctor pick brass out of your face and eyes if a case lets go near the base.

The 8 m/m S-Caliber is an excellent cartridge and is capable of surprising accuracy even in the deep-grooved military barrel, which certainly does not meet American ideas of proper rifling for good shooting. I have shot 5″ groups at 100 yards with an issue D.W.M. Mauser cut to 24″ and 1917 arsenal ammunition (which incidentally mikes .323″). They shoot fairly well together.

Mr. Fix-it's Field Kit

By MONROE H. GOODE

We were camped on North Star Mesa between the Mogollon and Black Ranges with New Mexican deer on our minds. Everything was ship-shape until one of the crew cracked up on the rocks and smashed the front sight of his Krag. It was hopelessly out of action, broken beyond repair. It was really a small matter—back home—but out in the hills, with the nearest gunsmith no closer than a hundred miles, it was something else entirely. There were no spare Krag front sights in the party and it looked as if this guy was licked.

But little Mister Fix-it—(meaning me)—got out his midget field repair kit and installed a copper penny—with due apologies to Uncle Sam. It served the purpose perfectly and next morn, come daylight, saw this hunter pulling down on a fine buck with the penny-in-the-slot Krag. The deer didn't make it, and that hunter has been forever grateful for that little field repair kit that I carry and use on nearly every hunt.

Were you ever in such a pickle? There have been numerous times in my many years of hunting experience when such little mishaps suddenly threatened to undo months of anticipation and planning, and the frequently not inconsiderable sums of the coin of the realm which must go into these hunts. I learned my lesson years ago. Invariably I take along a spare rifle, particularly on the longer, more distant—and incidentally more expensive—hunts. But into my duffle bag, too, goes the tiny kit of tools which with me is a *must* item.

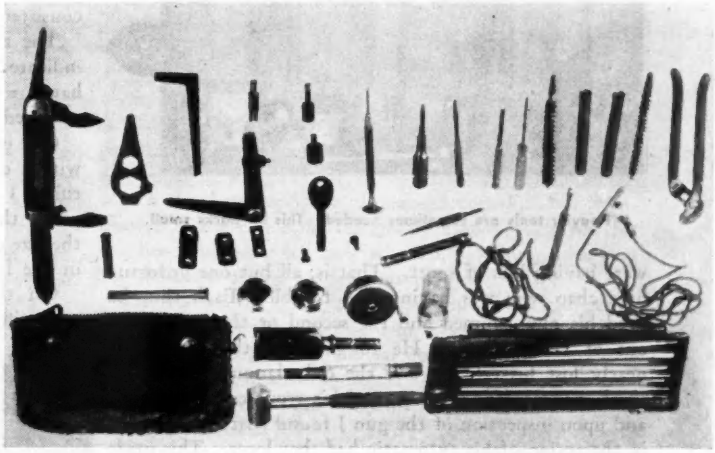
When a man goes on a hunt, he owes it to his companions as well as to himself to anticipate trouble—gun trouble as well as other trouble. Guns are susceptible to injury just as is the frail human carcass and out in rough country, in tough going, you can't figure on giving your rifle the loving care it gets in its cabinet at home. No one likes to anticipate trouble, but it is foolish to fly in the face of Fate without at least simple precautions. A first-aid kit is usually a part of every hunter's equipment to repair minor damage to himself. The success of any hunt depends as much on the well-being and proper functioning of the hunter's weapon and this is ample reason for a first-aid kit for the rifle as well as for the guy who shoots it.

All troubles can't be solved with field equipment, of course. A companion of mine once hunted for three days with a borrowed rifle. He really worked over time for a shot at one of two huge mule deer which were ranging the vicinity of our camp. Finally his chance came. When he squeezed that trigger the net result was a futile metallic click. That was no place for a broken firing pin, but there it was. The part broken was lost and gone and there was just no fixing that rifle out there in camp. Things like this, of course, are entirely beyond the scope of the little field repair kit.

But I made a resolution years ago never to be caught flat-footed without at least an effort to take care of such breaks as *can* be repaired afield. The field repair kit is an indispensable item of my hunting equipment. It takes up less space than a small camera—just a mite more than a half-pint bottle, if that gives you a better idea of its size. In addition to the necessary tools it includes a few spare parts.

These parts can be carried in a small package not much larger than a cigarette case. The parts I consider necessary for a bolt gun include a main spring, sight protector, firing pin, front sight, front sight pins, rear sight pins, rear sight screws, an extra arm for the receiver sight and a cup disc for target shooting. It also includes an extra sling-swivel and a bucksin thong for lacing the sling strap. On one occasion I even went so far as to have an extra bolt fitted to one of my Springfields, just in case. Fortunately, I've never yet had to press it into service.

These parts would not do for anyone using a trombone or lever action rifle, of course. Such a hunter will have to make up his own list of spare parts for the particular gun he is accustomed to use. But this should not prove a difficult task. For expert advice in the selection of such parts as may be necessary for your own arm, you can find no one better qualified than your own gunsmith. From long experience, he knows the weak parts of the various hunting arms and those most likely to suffer from hard service or abuse. Get him into a huddle and he'll not only tell you what to take along but undoubtedly will be delighted to sell you the parts—if he has them now.



This kit, made up as it is of a varied assortment of many small tools, packs compactly and might be the means of saving a hunt that would otherwise be ruined by field breakage.

In choosing the tools to make up his kit every hunter will have to decide for himself just what he wants cluttering up his duffle bag. Here, too, your gunsmith can be handy with advice. That is, of course, if you're not one of these guys the women like to call a "handy man about the house." If you are you'll probably have a pretty good idea what you want in *your* kit, but as for me, I include the following tools in my little kit bag.

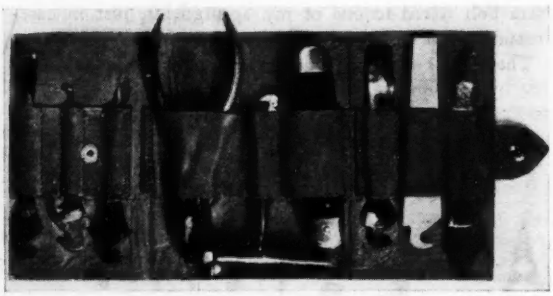
The first item is the screw driver. I carry four, ranging in size from the smallest for sight work to one of

substantial size for the big stock screws. Two or three punches of varying sizes are needed and a pair of cold chisels, one very small and the other about medium size. A small hack saw, files, wood bit, and a four-edged tapered reamer for enlarging holes or turning out fragments that may break off and stick in a hole; small pliers, a short jointed steel cleaning rod, shell extractor, calk wrench, thumb tacks, miniature whetstone, and a small hammer, make up the balance of the works.

These, to me, constitute the minimum of tools necessary for field repair. As indicated before, you will want to vary this to suit your own taste, desires, and needs.

This tiny package has proved its worth over a long period of years and in many parts of the country. It has always turned in a good account of itself when pinch hitting for regular tools in the hands of a competent gunsmith.

A few years back we were shooting doves on the opening day of the season. The birds were plentiful and we



Heavier tools are sometimes needed. This kit packs small.

were having lots of sport. That is, all but one unfortunate chap who was having gun trouble. Each time he fired his gun jammed and the second or third shot was out of the question. He fought that thing until he nearly lost his religion and the only language he could speak was Profane. He poured his troubles into my lap and upon inspection of the gun I found that a tiny screw in the action of his automatic had shot loose. This made it impossible for the gun to function properly. Out came the tool kit, and in went the screw. That guy's gratitude was almost embarrassing.

Backing a car over a slide action deer rifle isn't recommended. But it has been done. Once down in Texas this happened to one of our party and the action was so jammed that it couldn't be worked at all. The season opened next morning. The little kit worked over time that night and when the dawn-tinged sky heralded the opening of the deer season that gun was on the trail in the hands of its owner. He claimed that that baby tool kit was worth a hundred bucks of his money any time, and it gave me considerable satisfaction to be able to be of service in this small way.

Times without number that kit has saved the day, and always someone has been made very happy thereby. Gun sights galore have been put back into action with these tools and a little native ingenuity. Once a terrific wallop made a mess of the Lyman 48 receiver sight on my own rifle. Without the use of tools it would have been impossible to use the gun at all. But a little judicious use of the hammer and file put it back into operation in a short time. It didn't have its old lines and symmetry but it had what it took to do a job. The next day saw the job being done.

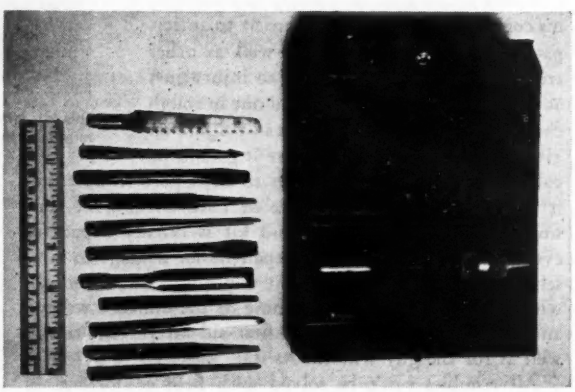
One day years ago, long before Lieutenant Commander Thurman Randle got all his gold braid, we were down in the Sierra del Carmen mountains of old Mexico, down southeast of the Big Bend country of Texas. This is bear and lion country. We were hunting on horseback and Thurman didn't relish his seat on the hurricane deck of the Mexican cow pony, even a little bit. He maintained that it was tough enough to have to climb one of those sky-stabbing mountains without having to drag a horse up after him.

One day he was riding peacefully along dreaming of bigger bucks or better bears or who knows what, when suddenly the cayuse stumbled and the not-yet-Commander's hurricane deck heaved as from a potent wave and he bit the dust. The horse went down and rolled over and over as Randle stepped aside. The Hensoldt scope and Redfield mount came through without a scratch but the rifle was not so fortunate. The stock of the Remington 30S was wrecked. But between his small kit of tools and the ingenuity of the dusky Mexican guides the gun was made serviceable in short order. The Mexicans ably supplemented Randle's work by encasing the grip in green buckskin which shrinks and has the consistency of case hardened steel when it dries.

The effectiveness of the first aid given this rifle was indicated when the old maestro exploded a predatory hawk with it at 225 yards, shortly after it had been returned to duty.

Out in Wyoming I once had some unpleasant moments with a caterpillar sight on a custom-built .300 Magnum rifle. I had along a .375 Magnum as an extra but I prefer the .300 for long range shooting at anything under the size of moose and I wanted to use it. Again the tools in the little kit saved the day.

On that same hunt I had more trouble with that same rifle. The Howe-Whelen sleeve sight went haywire



One of the many-in-one tool sets now on the market.

and I had to remove it and resort to the folding open sight for the rest of the day. That night, however, between files, screw drivers, etc., we had the durned thing back on the job for the next day.

Skidding down the icy slope of a Wyoming mountain one year, my rifle came out of the scabbard and dropped muzzle first onto the snow-covered rocks. One of the guides happened to touch it with his hand as he coasted

(Continued on page 27)

MOOSE ON LAKE NEEMIGEE

By CLAUDE PARMALEE

OLD JIM NEAUSE, the Cree who had guided me on other hunts, was off this time with another party, so I went down the river on this hunt with a trapper-prospector who worked as guide between seasons. He had a trapper's shack on a big lake, he told me; and there were moose there. The rest depended on our luck.

We packed our equipment in the Peterborough in a blinding snowstorm, shoving off early in the morning for a spot fifty miles from the railroad, in country seldom visited by whites.

He was a silent man, this guide; true to his type. The North makes men silent, and this man was part and parcel of the land. I watched and studied him, followed him over back-breaking portages—in silence. He was cool, unfriendly; but I admired him. He was resourceful, skilled in the crafts that make the woods a home. He could make a comfortable camp quickly, without a single wasted movement. Come morning, he'd load the canoe quickly, too, and it would be in perfect trim. In it, he shot "white water," down roaring and treacherous rapids, with a deftness and sure touch that was good to watch.

Oscar Boyer, well-known bushman and guide.

Nothing escaped his eye, either, as we traveled. Let a red fox move far up on a mountain-side and his paddle would pause briefly and his head would nod. "See? He's worth twenty dollar. Don't shoot; might be a moose 'round the next bend." I wouldn't shoot. He'd trap that fox next month. Its pelt would be a part of his winter's profit.

He watched the rock, too, seeking always the typical quartz outcroppings that may mark gold. Gold had been found here, just before my arrival; found by an Indian and his squaw as they pulled moss for a fire on which to boil their "*tea*." It was a rich vein and the memory of it was fresh in my guide's mind. Someday he, too, would "strike it." The stuff was here . . . like the moose. It was a matter of luck.

We reached Neemigee Lake on the fourth day; a beautiful, shimmering mirror of crystal-clear water, cold and deep, peopled with trout, dotted with islands, flanked on all sides by great timbered mountains. Great flocks of wild ducks and geese rose from the rice beds as we slipped among them and I took a shot at a big honker with my 20 gauge pump. He was directly overhead when I fired, and he fell with a mighty splash alongside the canoe. My guide smiled, very slightly.

We reached the little cabin just at sun-down. A bear had been there and left things in wild disorder. But the sky was aflame, the heavens drenched in deep red, like wine, with golden shafts piercing the clouds yonder to slash the lengthening shadows of approaching night. A lone duck faded into the crimson, and a cow moose bawled somewhere in the distance.

Next morning, we were in the "bush" at daybreak. Our time was limited; not a moment to be wasted. For the "freeze" was due any day now and we could not afford to be caught.

Moose tracks were everywhere. That first morning I took a trail a foot deep and followed it. The wind rustled in the spruces; an ideal day. But I saw no moose.

Four days, we gave ourselves; and that fourth day passed and saw our luck unchanged. We'd seen no moose. I'd tried calling once, from a windfall. I'd got an answer, too. Once. Then silence.

"They're here," my trapper said. "We just ain't hit 'em. It's like that, some times." How well I knew!

We had to leave. It was getting colder. Any night now the river might freeze. But I watched the banks as we paddled. There was still a chance.

We were half way back to the railroad when it happened. We rounded a bend . . . and there was my moose, as big as a horse, standing knee-deep in the water. Not a word was spoken. I reached for the .348 Winchester as the canoe drifted gently ashore. I leaped for the beach and the big bull wheeled, splashing, charging for the cover of the nearby swamp.

He reached the bush just as the white bead cut across his massive shoulders. The rifle cracked—twice.

The bull went down. Stayed down. I looked down at my trapper then; saw the bright gleam in his eyes. He nodded. I had my moose.

That's the way it goes, some times, in the big bush. But for us "touched" by the northern lights, there is no other place on earth!

He was a silent man, this guide. I studied him, admired him, followed him over back-breaking portages.

British Home Guard

By MAJOR C. B. THORNE, M.C.

MADE UP OF CIVILIAN WORKERS who undergo military training and perform part-time military duties, subject to call for full-time military service should the necessity arise, Britain's Home Guard is perhaps the most remarkable force to have been established in the annals of recent warfare.

Three years ago Britain was facing the crisis of her existence. An invasion seemed certain. The government called for volunteers to defend the towns and villages. Despite lack of arms, of ammunition, and of equipment, men in thousands offered their services. Their determination to defend Britain's shores was magnificent.

These local Defense Volunteers, the name by which they were originally known, were of all ages and from all callings. There were farm laborers, generals, taxi drivers, clerks, admirals, butchers, and many others who, regardless of rank or station, were prepared to take their place in the ranks of this fighting service. At that time uniforms were scarce. Volunteers wore civilian clothes and were distinguished by arm bands. Their weapons consisted of odd rifles, shotguns, ancient revolvers, or any other implement to be found.

Three years of hard and unselfish work have made them a formidable and efficient fighting machine. With the full switch over of industrial output from peace to war, the Home Guard today is well equipped and well trained. In consequence they would give a good account of themselves should an invasion be attempted. Admittedly, the possibility of such an emergency has been considerably reduced, but as long as this war lasts the security of Britain is of the utmost importance in Allied strategy.

The training of the Home Guard is directed by the Commander-in-Chief of Home Forces. A more liberal supply of arms and ammunition has led to a considerable improvement in the marksmanship of the whole force. New schools have been opened, travelling wings introduced, and Home Guard weapons are now taught at Command Weapon Training Schools. Their personnel learn signalling, antigas, and intelligence duties, taught by 5,500 regular officers and N.C.O.'s attached to Home

Security of the British Isles is of utmost importance to Allied strategy. The British Home Guard today is well equipped and well trained.

Guard battalions for training and administrative purposes. Should the Home Guard be mustered, it can now feed itself and attend to its own medical requirements. Radio sets help to improve inter-communication. These administrative improvements greatly add to the effectiveness of the entire organization.

Antiaircraft defense has been added to their responsibilities. To learn this work requires intensive technical training, but the Home Guard have proved themselves capable. A few batteries already taken over have demonstrated their ability in action. They also man Coastal Defense batteries and handle transport. There are over 100 Home Guard motor transport companies handling more than 9,000 War Department vehicles. These transport units can supplement the regular army in the event of an emergency.

The importance of this part-time military service in relation to the manpower problem of Britain is perhaps not generally appreciated. With Home Guard forces capable of taking over some of the duties normally performed by the regular army, full-time soldiers are relieved for combat service elsewhere. Although Britain is now supported by powerful Allies, she still has to undertake a gigantic task with a relatively small population.

The manpower situation was at its worst during those dark days when the collapse of France left the British Isles to face heavily armed opponents singlehanded. The Home Guard was then of vital importance to British strategy. It supplied the means of securing the Empire's major operational base without the use of regular troops needed elsewhere. Only by such rigid economy of manpower was Britain able to organize the strong striking force essential to victory.

With the need for improving rapidly the general efficiency of home defense, there have been times when it has been difficult to determine to what extent Home Guard duties should interfere with industrial output. This has been one of the many complexities arising out of unpreparedness for war. On no account could Britain afford to allow her industrial output to lag, yet she has to provide for her defense. These difficulties have been solved by the application of common sense. The Home Guard tasks have been adjusted in accordance with the civil occupation and the capabilities of each individual.

The defeat of the Axis in Africa was a fitting occasion for this body of men to celebrate their third birthday. There followed the first step in the invasion of Europe—the attack on, and fall of Sicily. Now the United Nations move on to new objectives. Large numbers of British troops are and will be required, and the responsibility for home defense will rest more than ever on the Home Guard. The fourth year which they are now entering may prove to be the most vital of their existence, but they are prepared now to accept this greater responsibility.

Field maneuvers train Guard for defense against enemy invasion.

Mr. Fix-it's Field Kit

(Continued from page 24)

down the waist-deep trail behind me. That was a lucky break for me because only about two inches of the butt protruded from the snow. The flickering light of the campfire showed up the disaster. The front sight was knocked cock-eyed, and the rear sight was even worse. There was a big nick in the barrel near the muzzle and more, bigger, and better chunks out of the stock. The trigger had buckled and there were many more minor abrasions and contusions.

Unable to reach my gunsmith by phone, we set to work to see what could be done. When we got through with it, it looked gosh-awful, but it would shoot where it looked which was the important thing.

Another time I again lost my rifle from that same abbreviated scabbard. It was back in 1920 and we were hunting deer, bear, and lion with Scott Teague, the noted Yampa, Colorado, guide, and I had killed a bear.

We loaded the bear on my horse and everything was jake until we turned with the wind and that bronc got a snootful of the bear. Then all hell broke loose. That nag did everything in the book to get out from under. Then he decided to run away from it all. Lunging down the mountain in the semi-darkness he gave a mighty heave and tossed the bear into space—also my rifle.

That night horse, bear carcass, and rifle shared the lonely mountain. I took the rumble seat on my partner's nag back to camp. Next day we collected our stray animals and equipment and back at camp surveyed the sorry mess that *was* a fine rifle. It took us several hours with the little repair kit to undo the damage the horse had done in a matter of seconds. But those little first-aid tools saved the day and we were able to carry on.

All in all, those few essential tools in that tiny kit may mean the difference between a successful hunt and a hunt that can be a flop. It's success insurance.

KILLING POWER

By E. BADEN POWELL

CONCLUSION

THE WRITER IS FULLY aware of the many claims and reports that upon certain occasions the loads listed have killed animals weighing several times as much at the distances given. With such, a reader is more than welcome to reduce the constant to suit his own conscience.

The first three "K" values above mentioned and used in the Formula "A" for determining the animal-weight killing power given in this article, as well as the Tables and Charts, are based upon striking the particular densities of body tissue mentioned in Tables I (see page 34, May, 1943) and VI, with the designated types of bullets. In the velocity ranges given in Table VI, the results in highest practical killing-power efficiency are included.

TABLE VI

Impact Velocities	*Bullet Types*	*Tissue Resistance*
665-1000 f.s.	Lead, flat nose, hollow point	LR
	Lead, round nose, hollow point or wadcutter	MR
	Solid lead or metal cased soft point	HR
	Metal cased hollow, protected, belted, delayed expanding, solid round point, or solid pointed	XR
1000-1500 f.s.	Lead, round nose, hollow point or wadcutter	LR
	Solid lead or metal cased soft point	MR
	Metal cased hollow or protected point	HR
	Metal cased, belted, delayed-expanding, solid round point, or solid pointed	XR
1500-2250 f.s.	Solid lead or metal cased soft point	LR
	Metal cased hollow or protected point	MR
	Metal cased belted or delayed expanding	HR
	Metal cased solid round point or solid pointed	XR
2250-3375 f.s.	Metal cased hollow or protected point	LR
	Metal cased, belted or delayed-expanding	MR
	Metal cased, round solid point	HR
	Metal cased solid pointed	XR

When bullets of any one type strike the same density of tissue at lower velocities or penetrate less dense bodies at the given velocities, they are apt to fail to properly expand. When used on denser animals at the same velocities or the same density of animal tissue at higher velocities, they have a tendency to blow up before penetrating the vitals. They will usually destroy and mangle the outer flesh unnecessarily. Therefore, it should be of paramount importance that the hunter carefully select the correct load, i.e. bullet type, bullet weight, and range of remaining velocity at the maximum distances desired for the class and weight of animal to be shot. Study of the charts reveals that few cartridges are loaded with different type bullets of the same weight for all classes of game of similar weight. Study further reveals that many cartridges, particularly for pistols, are loaded with bullets of a type entirely unsuited for highest killing power on the classes of animals that are actually in existence of the maximum weight that such bullet weights and sizes would be capable of killing quickly. Hence, most *factory* pistol bullets are inefficient except for head shots. However, it should be remembered that most cartridge manufacturers make more than one bullet of the same weight for a few of the calibers (note .30-'06 U. S. Government) each of which usually possesses a different shape and construction. But due to different values of "C", even when loaded to the same muzzle velocity, these bullets may exhibit different remaining velocities, trajectories, and wind drifts and will be as proportionately effective on heavier or lighter animals, or different classes of animals at the distances given. The better bullets constantly being developed for rifles and pistols, not only insure more uniform performance during penetration, but also increase the effective range. This is especially true of some of the most recently developed .22, .25, 7mm., and .30 caliber bullets and particularly of their points, which are much more important at high velocity (1800 f.s. and higher) than boattails which are most effective at velocities between 1370 f.s. and 790 f.s.

The animal weights are calculated upon striking velocities, based upon muzzle velocities as designated in the Chart. When the center-fire cartridges are fired from carbines with eighteen- to twenty-two-inch barrels, and from target rifles with twenty-eight- to thirty-two-inch barrels, the muzzle velocities will be from 5 to 10 per cent less, or more, respectively, than when fired from standard sporting barrels from twenty-four to twenty-six inches. Maximum velocities are obtained from rim-fire cartridges when fired from eighteen-inch barrels.

The ratio of killing power between any two or more cartridges listed can be easily determined at any of the ranges given, by simple proportion. For example: the .22 short hi-velocity as against the .600 express, both at close range. Take the animal weights given after both cartridges under "Head" column on the chart and divide the larger number by the smaller, thus: 15,000 ÷ 8 = 1875 to 1. Or, by the formula, compare the killing power of any other cartridge not listed, such as the old black-powder loading of the most popular big game cartridge of fifty years ago, with that of the most popular one of twenty-five years ago, and with the most popular one of 1942, to-wit: .44-20-200-1300, .30-30-170-2000, and .30-06-180-2700, on chest shots at one hundred yards, in pounds of animal weight, viz: 200, 250, and 400. In other words, the old .44-40 possessed 80 per cent of the animal-weight killing power of the newer .30-30, and 50 per cent of that of the present "high intensity" .30-06.

The comparative efficiency of two or more similar loads can also be ascertained. For instance, note that the factory 87-grain .250 Savage load possesses more killing power beyond 200 yards than the 87-grain .257 Roberts bullet started 220 f.s. faster. Also note that the .30-40 Krag is a better caliber in all respects including killing power than the .348 W.C.F. Notice, too, that the 180-grain O.P.B.T. .300 Magnum bullets lose velocity faster than some of the 180-grain O.P.B.T. .30-06 loads, but that the factory 180-grain match loads in the .300 Magnum cartridges have bullets that exhibit superior ballistic coefficients and wind-bucking abilities compared to the factory expanding game bullets in the same caliber. Also

see that certain handloads outperform even the factory match bullets in all respects, in all calibers.

The killing power of the bullets on animals of the weights listed under the "K = 400,000" column is not based upon "hydraulic transmitted shock" effect because at the distances given, the velocities are below those required to blow the bullets up upon impact. The killing power is, therefore, based upon "nerve transmitted shock."

If one desires to ascertain the size of animal a bullet will kill instantly by a head or spine shot at the distance listed in the column under "Chest," double the weight given in the column under "Chest." For an instant kill at the distance listed in the first column under "Belly," he should multiply the weight shown in the column under "Belly" four times, while for a belly shot at the distance listed under "Chest," he should divide the weight shown under "Chest" by two. At the distance listed under "Head," divide the weight shown under "Head" by four.

Sometimes, much heavier animals than those listed under "Head" can be killed by properly placed "Brain" shots with the bullets designated. Under actual hunting conditions, the animal weights given are believed to be the heaviest that should be considered certain. For a chest shot at the distance listed under "Head," divide the weight listed under "Head" by two. For a chest shot at the distance listed under first "Belly" column, multiply the weight given under "Belly" by two.

The "K" value given for bird shot is based upon five pellets penetrating the vitals of the size of bird listed, two of which penetrate the chest, two the viscera, and one the head or neck. These, according to the formula, would produce at least two and one-half times the killing power of a single pellet striking in the head. The combined weight in grains of five pellets, according to the formula, would kill twenty-five times the animal weight that only one of the pellets would, at the same velocity, due to their weight and volume alone. The wounds being distributed in five different places would result in the destruction of about one and three-fourth times the amount of tissue that one pellet of the combined weight would destroy (due to cross-section area of wounds). This adds to the effectiveness of a multiple-pellet pattern over a single pellet possessing their combined weight at the same velocity, and altogether increases the weight of bird by

CHART 5

CARTRIDGE	BULLET		VELOCITY in f.p.s.		PATH OF BULLET					WIND DRIFT				TISSUE TYPE	ANIMAL WEIGHTS						VALUE of "C"	TIME OF BULLET FLIGHT	LOADED BY
					midway of "0" range		200 yds.	300 yds.	400 yds.	100 yds.	200 yds.	300 yds.	400 yds.		head K= 100,000		chest K= 200,000	belly K= 400,000		K= 73,000,000			
	wgt. in grs.	type	muzzle	300 yds.	in	in.	in.	in.	in.	in.	in.	in.	in		100	200	300	300	400	100			
.219 Win. Zipper	56	HP	3050	1350	+2.01		0	-13.23		1.30	5.21	11.75		MR	79	32					.114	.302	WRX
.22 K-Hornet Rifle	45	S-S	3000	1365	+2.05		0	-13.25		1.24	4.95	11.10		LR	51	21		9		39	.194	.596	CH
.22 Lovell Rifle	50	S-S	3200	1565	+1.65		0	-10.73		.91	3.63	8.20		LR	68	28		12		51	.205	.520	CH
.22 Neidner Magnum	55	SN	3450	1795	+1.20		0	- 8.05		.87	3.48	7.85		LR	90	36		16		67	.216	.485	CH
.22 Varminter Rifle	63	SN	3500	1990	+1.06		0	- 7.27		.72	2.87	6.48		LR	131	57		25		86	.238	.453	CH
.220 Win. Swift	48	SP	4140	1775		+2.75		0	-10.56	.66	2.65	5.95	10.60	LR	80		26		10	60	.157	.396	WRX
.220 Win. Swift	56	HP	3690	1660	+1.02		0	- 6.63		.65	3.37	7.60		MR	97	40		16		73	.175	.460	W
.22-06 "PMVF"(*1)	65	SP	3600	2125		+3.66		0	-12.34	.65	2.60	5.85	10.40	LR	135		52		23	91	.259	.437	H
.242 Magnum Rifle	100	SP	3000	1920	+1.62		0	- 9.11		.63	2.50	5.62		LR	270	121		54		98	.323	.500	B
.250 Savage Rifle	87	SP	3000	1950	+1.59		0	- 8.73		.62	2.47	5.50		LR	205	93		42		87	.335	.499	WP
.257 Roberts Rifle	87	HP	3220	1670	+1.35		0	-11.06		.93	3.73	8.40		MR	210	89		38		92	.222	.521	WRX
.250 "MVF" Rifle (*2)	100	SPBT	3600	2275		+3.40		0	-10.93	.54	2.18	4.90	8.70	LR	443		175		78	169	.294	.420	H
.26 BSA Rifle	120	SP	3000	2110	+1.55		0	- 7.93		.49	1.97	4.45		LR	398	182		84		125	.406	.479	B
.270 Win. Rifle	100	PP	3540	2325		+3.52		0	-10.17	.50	2.00	5.00	8.00	LR	321		130		58	141	.322	.419	W
.270 Win. Rifle	130	PP	3120	2225		+4.40		0	-11.78	.45	1.80	4.06	7.20	LR	487		200		94	148	.415	.457	WPX
7mm'06 "PMVF"(*3)	139	HP	3300	2160	+1.20		0	- 7.23		.54	2.15	4.84		LR	578	290		117		171	.328	.450	H
.276 Hoffman Super Ex	170	PP	3360	2605		+3.33		0	- 9.29	.31	1.26	2.82	5.00	LR	915		400		188	233	.525	.408	G
.280 Dubiel Rifle	140	HP	3000	2320		+4.48		0	-11.21	.35	1.40	3.15	5.60	LR	915		400		188	196	.545	.456	CH
.30-06 "PMVF" (*4)	163	PP	3100	2290	+1.30		0	- 7.03		.40	1.60	3.60		LR	762	356		165		186	.462	.451	H
.30-06 Springfield	110	HP	3360	1590	+1.49		0	- 9.93		1.04	4.18	9.40		MR	345	143		59		122	.191	.522	R
.300 H.&H. Magnum	180	NP	3060	1950	+1.58		0	- 8.07		.63	2.50	5.62		LR	890	400		178		186	.318	.493	WX
.300 "PMVF" (*5)	180	PP	3600	2750		+2.93		0	- 7.62	.31	1.22	2.75	4.90	LR	1090		478		223	282	.483	.382	H
.300 "PMVF" (*6)	225	BP	3100	2040	+1.48		0	- 8.07		.58	2.30	5.20		MR	1420		575				.339	.479	H
.300 H.&H. Magnum	180	SPBT	3110	2310		+4.25		0	-10.98	.38	1.52	3.46	6.10	XR	935						.468	.448	WR

EXPLANATION OF CHARTS

Bullet Type, L=solid lead; SP=metal cased soft point; HP=metal cased hollow point; LHP=lead hollow point; SM=solid metal cased; LWC=lead wadcutter. **Path of Bullet,** above (+), on (0) and below (—) point aimed at in inches when line of sight is ¾ in. above bore of gun at muzzle. **Wind Drift** of bullet in inches for air currents of 10 ft. per sec. (6.8 mph.) at "0" F. temperature and 30 inches barometric pressure, blowing at 90 deg. angle to path of bullet. **Tissue Type,** LR=low resistance animal tissue, MR=medium resistance animal tissue, HR=high resistance animal tissue, XR=thick skin and bone animal tissue. **Animal Weights,** maximum weight animal in pounds, designated projectile will kill humanely by spine, brain or other ganglionic shock; by heart, lung or other pulmonary hemorrhages; and by nerve transmitted shock when shot in liver, stomach, intestines or other viscera at maximum practical ranges in yards. **Loaded by,** W=Winchester, R=Remington, B=British, P=Peters, X=Western, G=German, H=handload, ALL=all US cartridge makers.

about 110 times (2½ x 25 x 1¾) that which a single one of five pellets would kill as quickly by a head shot.

Here, again, we are reminded of the failure of foot-pounds as a uniform measure of killing power. It has been proved that five Number 4 pellets well distributed in the body of a three-pound duck, such as a mallard, or canvasback, at sixty yards, will effect a quick, clean kill. The total weight of five such pellets is about eleven grains, and the total remaining energy when fired at high shotgun muzzle velocity at sixty yards is about twelve foot-pounds. Nothing less than a thirty-grain .22 short bullet retaining thirty foot-pounds of energy at the same distance would kill as effectively.

The Path of Bullet figures have been computed upon the ballistic efficiencies of the bullets listed, which were determined from their muzzle and one-hundred-yard remaining velocities, as published by manufacturers and other reliable sources. The bullets were passing through air at a density of thirty inches barometric pressure, at zero temperature F. Each bullet was passing through the velocity range indicated when fired at angles of departure of less than fifteen degrees from the horizontal.

When any particular rifle and load listed is sighted to strike "aiming point" at any distance designated in the chart, the shooter may change the bullet's point of impact to shoot "on" at any other distance by changing the rifle's sights the number of inches between those given for the designated distance and those given in the chart for the distance to which it is desired to change. This will automatically take the place of holding over or under the target the number of inches given in the chart.

However, when the shooting is done at higher altitudes, the remaining velocities will be the same at about 5 per cent greater distance for each 1000 feet increase of eleva-

CHART 6

Buckshot—Each pellet assures humane killing of animals of following weights shot where designated. Maximum animal weight is found by multiplying the animal weight listed by the square of the number of pellets striking the body part named.

CALIBER	TYPE & SIZE EASTERN	TYPE & SIZE WESTERN	WT-GRS	MV feet per second	K=100,000 Head Shot at 20 yds.	K=200,000 Chest Shot at 40 yds.	K=400,000 Belly Shot at 60 yds.
.36	000	2	72	1400	57	20	8
.34	00	3	61	"	40	15	6
.32	0	4	50	"	27	10	3½
.30	1	5 or 6	40	"	18	6½	2½
.28	2	7	30	"	10	3½	1½
.26	3	8 or 9	24	"	7	2½	1
.24	4		20	"	4½	1-3/4	3/4
.23	FF		18	"	3½	1-1/3	½
.22	F		16	"	3	1	6/16
.21	TT		14	"	2½	3/4	5/16
.20	T		12	"	1-5/8	11/16	1/4
.19	BBB		10	"	1-1/8	3/8	1/8

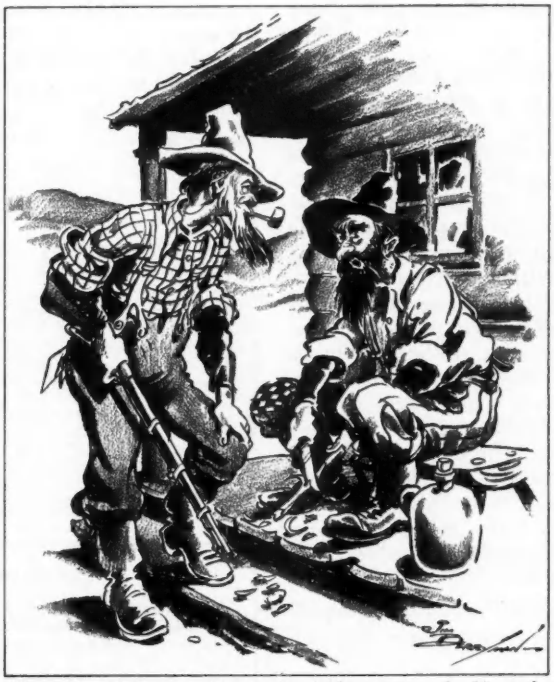
Birdshot—K=260,000—When using guns patterning five pellets of size listed in vitals of birds of weights designated at the given distances and muzzle velocities.

CALIBER	LARGEST SIZE shot adapted for gauges & birds listed	PELLET weight in grains	SMALLEST gauge adapted to shot size & charge listed	CHOKE BEST adapted for shot size & gauge listed	SHELL LENGTH	WEIGHT OF shot charge in ozs.	NUMBER pellets in charge	MAXIMUM practical M.V. in F.S. for shot size	REMAINING velocity at maximum distance given	LARGEST BIRDS LOADS LISTED will kill humanely at maximum distances given		
										Kind	Weight	Range
.18	BB	8-3/4	10 Ga.	full choke 75% pattern	3½	2	100	1500	620	Turkeys	20-1/3	80
.17	B	7-½	10 "	"	2-7/8	1-5/8	96	1475	625	Larger Geese	14-¼	75
.16	1	6	12 "	full choke 70% pattern	3	1-3/8	99	1450	630	Smaller Geese	9-½	70
.15	2	5	12 "	"	2-3/4	1-¼	110	1425	620	Larger Grouse	6-½	65
.14	3	4	12 "	"	2-5/8	1-1/8	123	1400	625	Larger Ducks	4-¼	60
.13	4	3½	16 "	mod. choke 65% pattern	2-3/4	1-1/8	153	1375	630	Pheasant	2-3/4	55
.12	5	2-½	16 "	"	2-9/16	1	175	1350	630	Smaller Grouse	1-2/3	50
.11	6	2	20 "	mod. choke 60% pattern	2-3/4	1	221	1325	650	Smaller Ducks	1-1/8	45
.10	7	1½	20 "	"	2-½	7/8	262	1300	660	Pigeons	10 ozs.	40
.09½	7½	1¼	28 "	imp. cyl. 55% pattern	2-7/8	3/4	259	1275	685	Quail	7 ozs.	35
.09	8	1-1/10	28 "	"	2-½	5/8	250	1250	795	Doves	5 ozs.	30
.08	9	3/4	410 "	imp. cyl. 50% pattern	3	½	290	1225	845	Snipe	3 ozs.	25
.07	10	½	410 "	"	2-½	3/8	330	1200	925	Sparrows	1-½ ozs.	20

tion, or one inch decrease of barometric pressure. If the shooting is done in warmer weather, the bullets will likewise have the same killing power at 5 per cent greater distance for each twenty degree F. increase in air temperature. The trajectory heights of the bullet will increase by 5 per cent with same sight setting and the "Lag Time of Flight" will decrease by 5 per cent in either of the above cases; hence, the bullets will strike the aiming point at 5 per cent greater range than in the charts.

When the firing is up- or downhill at angles greater than twenty degrees from the horizontal the bullets will strike the point aimed at, at distances from 5 per cent further at twenty degrees to twice the range at sixty degrees and four times the range given at seventy-five degrees from the horizontal, with the same sight-setting.

The "Wind Drift" figures for the designated bullets have been computed upon the same ballistic coefficients, barometric pressures, and temperature base data as the "Path of Bullets," calculated upon the nearest one-thousandth of a second "Lag" time of bullet flight. These figures are for the lightest air currents it is necessary to compensate for under practical hunting conditions, commonly designated as "gentle breezes," which blow uniformly at right angles to the paths of the bullets at velocities of six to eight miles per hour (ten feet per second) while the bullets are passing through the velocity range indicated. So-called "light winds" usually blow at speeds between twelve to fifteen miles per hour (twenty feet per second) and require about twice the correction for wind drift as the figures in the chart. For the strongest winds in which it is at all practical to hunt or shoot (around twenty miles per hour, or thirty feet per second), about three times the allowance should be made. For winds quartering to the direction of fire, only half to three-quarters of the allowance need be made as for "cross" winds, and for near "head" or "tail" winds not more than one-fourth as much.



"No, suh! Cain't go wastin' good ca'tridges on squrrls this yeah. Ain't got more'n just nuff now for th' usual Chris'mus ruckus with them dang Coys."

Likewise, when the shooting is done at higher altitudes, the wind drift will be approximately 5 per cent less than the figures in the chart for each 1000 feet increase in elevation, or one inch decrease in barometer pressure. Wind drift will be approximately 5 per cent less for each twenty degrees F. increase in air temperature.

The effects of temperature and barometric pressure are cumulative on the wind drift effect and trajectory of any bullet. If a shooter were to take any particular rifle and cartridge that had been "zeroed" at sea level on a very cold day and fire it in the mountains at 10,000 feet elevation on a very hot day, particularly where the shooting would involve angles up- or downhill, the difference in the path of bullet could easily be 200 per cent. The wind allowance determined for that bullet on that cold day at sea level, might well be twice as much as necessary. To determine the drift of a ten-mile wind at sixty degrees F. at sea level, multiply the figures given by 1.3 and of a fifteen-mile wind, multiply by 1.95.

Of course, under actual hunting conditions, winds are not usually uniform in either velocity, direction, or angle to the direction of fire over any appreciable period of time. Psychologically, a shooter is most apt to become conscious of the wind speed at the interval of its greatest force, but unconsciously fires at the instant its effect allows steadiest holding. The shooter must ever be on the alert to compensate for such variations.

While the elevation and windage data given in the chart are based upon precise mathematical and physical constants, in actual practice these specific conditions would be seldom, if ever, encountered by the average shooter. Therefore, these data must serve only as approximate guides for the hunter. The serious target shooter should test each gun individually and make separate tables of the firings of each load used at the different elevations, barometric pressures, humidities, and air temperatures. Cold, rarefied, or humid air, or combinations thereof, and hot, dense, or dry air, or combinations thereof, traveling at the same velocities produce different wind effects. A bullet passing through air possessing these different properties exhibits different efficiencies, and with the velocity decreasing as the distance increases, passes through different stages of air resistance which alters air and wind effect upon it. The writer has been unable to find any published data to date that adequately cover this subject. This is the reason that one may find as many different wind allowance tables and formulae published as there are authors, for the same bullet, at the same wind speed. No two of these will agree, and some of them will be 100 to 200 per cent at variance.

Different rates of bullet spin, direction of fire, and bullet buoyancy, the effect on trajectory at different velocities due to air, as well as the temperature effect on powder combustion, all are minor influences that firing tables will determine for the target shooter.

However, it is believed that all the data given are far more accurate than man's ability to judge distances or wind speeds, or to direct his bullets, while hunting.

Simplified Small Arms Ballistics

FOR THE SPORTSMAN AND SOLDIER

By the OLD COACH

IV. POWDER AND PRIMER

(Continued from October issue)

BURNING TIME MAY BE CONTROLLED by the use of one of the following methods or, more often, by a combination of several of the methods:

1. By changes in the size of the grain.
2. By changes in web thickness.
3. By changes in the density of the grain.
4. By changes in the proportion of nitro-glycerine, or by not using any nitro-glycerine.
5. By chemically incorporating into the powder, agents which will act as "deterrents," i. e., will slow the rate of burning.
6. By *mechanically* adding ingredients which will act as deterrents or as nitrogen carriers—usually accomplished by coating or "glazing."

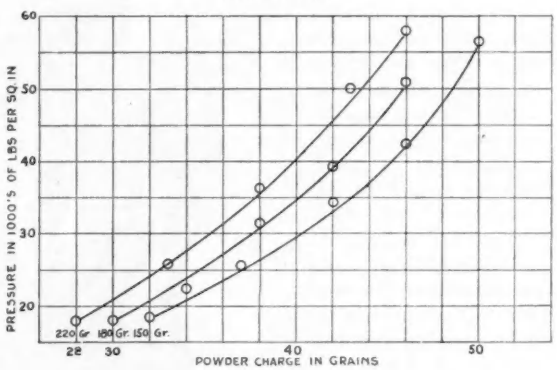
Having designed and manufactured a powder which approximately meets the desires of the ballistician and of the shooter, the powder man has one more worry. Will the powder retain its good characteristics over a reasonable period of time under the variety of conditions which it will face before the cartridge is finally fired? In other words, is the powder chemically stable? Nothing in this world remains absolutely unchanged — absolutely stable. Erosion, corrosion, oxidation, dehydration, moisture absorption—all sorts of things cause physical and chemical changes in everything about us all the time. Acknowledging the fact, then, that absolute stability is impossible we *can* say that modern smokeless powder is stable enough for all practical requirements if it is handled and stored with reasonable care. As a general rule the powder and primer in a modern bottle-necked cartridge will remain stable longer than the cartridge case itself. The brass will become "tired" and split at the neck, loosening its grip on the bullet, before the powder and primer lose *their* efficiency. The following things affect the stability of the powder.

1. Impurities within the powder caused by inadequate control during any one of the many stages of manufacture.
2. Improper drying. (Though the powder be otherwise perfect, it will show changing ballistic characteristics so long as moisture and volatiles continue to evaporate from the grain. The entire drying operation must be carefully controlled or the grains will warp, crack and otherwise change their shape and burning characteristics.)
3. Moisture absorption (hygroscopicity).
4. Exposure to prolonged high temperature. (Loss of volatiles and other chemical changes.)

So much progress has been made by the powder manufacturers in building stability into the powder that with a little intelligent care the shooter can depend on modern smokeless cartridges to function satisfactorily as long as the brass remains in good condition. Any powder or ammunition which has been exposed to excessive heat or moisture for a prolonged period should, however, be tested at a properly equipped ballistics laboratory before it is used in any sort of weapon.

There are two powder designations which you may encounter that have not been mentioned up to this point. The first is "Pyro D. G." It is a designation once commonly used to indicate "pyro" (nitro-cellulose) powder having a content of diphenylmine ("D") used as a chemical stabilizing agent and glazed with graphite ("G") which served the combined purposes of a deterrent, a glaze to aid in smooth, accurate machine loading and to reduce moisture absorption. The second cryptic designation which may bother you is "F. N. H. powder." The "F" stands for "flashless." The "N. H." means "non-hygroscopic." Of course the powder is neither. In both respects it is better than ordinary smokeless. The heat absorbing ingredients which reduce the flash also reduce the amount of energy imparted to the projectile while increasing the amount of smoke. Reduction in muzzle flash means so much to the artilleryman that he is willing

GRAPH ONE



EXPLANATON OF GRAPHS

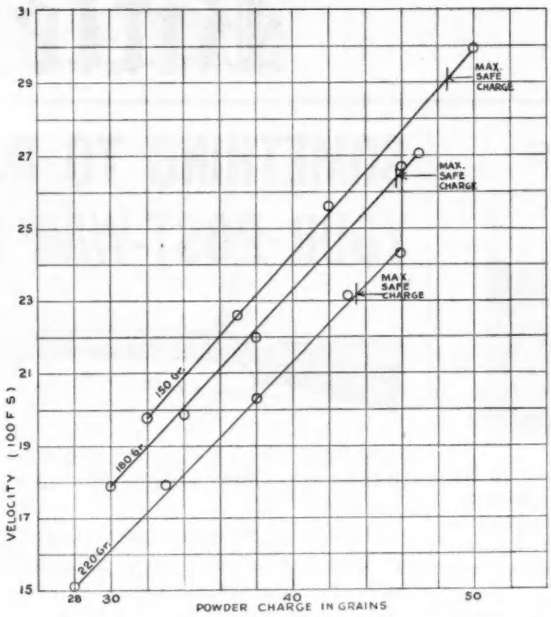
I. **Comparison of pressure curves for three weights of bullets using the same powder.** A charge of 46 grains develops a pressure of 42,000 pounds behind a 150 grain bullet, slightly over 50,000 pounds with a 180 grain bullet, and 58,000 pounds with the 220 grain bullet. A very safe charge with one bullet is a very dangerous charge with another bullet—all components are the same except the bullet.

II. **Comparison of velocity curves for three weights of bullets using the same powder.** Charges developing the maximum safe pressure of 50,000 pounds (see Chart I) will produce velocities of 2910 feet per second with the 150 grain bullet, 2635 with the 180 grain bullet, and only 2310 with the 220 grain bullet.

III. **Comparison of pressure curves with four different types of powder using identical components.** The safe operating level of 50,000 pounds per square inch is reached with a charge of only 21.4 grains with the fastest burning powder tested, while a charge of 48 grains may be safely loaded using the powder that is properly designed for this cartridge.

IV. **Comparison of velocity curves for four types of powder using identical components.** The velocities obtained using the maximum safe charge determined in Chart III range from 2,060 feet per second for the fastest burning powder to 2,900 feet per second with the powder properly designed for the cartridge. (Graphs V and VI of this series next month.)

GRAPH TWO



to put up with some handicaps in his powder but the increase in smoke is undesirable. Much more experimentation will have to be carried out before a completely satisfactory "flashless" powder is available. The "non-hygroscopic" characteristic is of much interest to the artilleryman. Slight changes in moisture content of the powder will cause changes of several hundred yards in the normal range calculations for a seacoast gun. The powder grains for these great guns are as big as your thumb and they are not protected from moisture by being sealed inside a brass cartridge case. The powder is stored, and loaded into the gun, in large silk bags. Real progress has been made in developing powder which will not absorb moisture so readily as formerly. At this time "F. N. H." powders are not being used in small arms ammunition.

V. THE TERRIFIC INSTANT

FROM THE TIME THE SHOOTER presses the trigger until the bullet emerges from the muzzle of the gun is only an instant, but it is hard to imagine any fraction of a second that could be packed with more intense action. The study of what happens inside the gun during this terrific instant is the study of "interior ballistics."

We have discussed the various actors in this flaming drama—powder and primer, bullet and gun barrel, cartridge case and gun chamber—now let's put them together and see how they function as a "combat team" and how the ballistician goes about the task of checking on their performance.

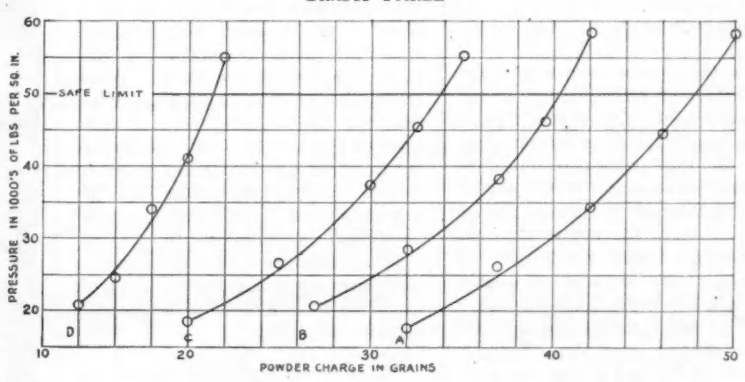
The study of internal ballistics centers around the development and control of internal pressures in the sun. Pressure is the determining factor in the successful or unsuccessful functioning of firearms. With too *little* pressure we will not drive the bullet fast enough to accomplish its mission. With too *much* pressure we will blow up the gun or we will have to build a gun so heavy as to be impracticable. If the pressures *vary* from one shot to the next, the velocity will vary—one shot will hit the target, the next will be over and the next short.

Right here might be a good place to inject one important thought. Despite all the years of study which have been given to the subject of internal and external ballistics by mathematicians and physicists the science of ballistics remains one in which formulae based on actual test ("empirical formulae") are generally preferred to formulae based on purely mathematical calculations even though such calculations are based on known laws of physics. This is no reflection either on the laws of physics, the mathematicians, or the ballisticians. There are so many important but immeasurable variables in the firing of a gun that it is impossible to devise a simple and completely satisfactory ballistic formula. No other engineer has constantly to face as many variables as the ballistic engineer. It is very important that the average shooter understand this fact. We hear many "amateur ballisticians" making positive statements based on purely theoretical equations that they have worked with paper, pencil, and a slide rule. On the other hand, a *real* ballistic engineer invariably shies away from a positive statement about ballistic performance unless he has run a complete series of tests *with the exact components* under discussion. Formulae and equations do serve a valuable purpose in the hands of a trained ballistic engineer who can constantly check his calculations against current tests and cross-check against thousands of previous tests. Beware the amateur who can quote chapter and verse of theory but has never operated a chronograph or a pressure gun!

Pressure being the keystone of the arch around which the whole structure of internal ballistics is built, it is important to know what factors in the gun and cartridge affect pressures. Here they are:

1. Type of powder—composition, grain size, grain form, density of grain.
2. Type of primer—composition, size, Berdan, or "American."
3. Type of bullet—composition, weight, shape, diameter.
4. Type and tightness of crimp holding bullet in case.
5. Type of chamber (cartridge case)—shape, volume in relation to caliber, size in relation to normal standards.
6. Erosion and abrasion in the throat of the chamber and in the bore.

GRAPH THREE



BRIDGEPORT, CONN., NOV. 1943

Rifle Remingto

Possibles and Impossibles

by **FRANK J. KAHRS**

Many times I have thought about calling attention periodically to the very important subject of non-corrosive ammunition. Most shooters know that since the latter part of 1926, when "Kleanbore" priming was first used in .22 rim fire cartridges, it became unnecessary to clean the bore of the rifle after firing. However, a few shooters continue to clean their guns after firing, wearing out both themselves and their guns . . . all of this despite the facts that prove it is no longer necessary; that is, when using non-corrosive ammunition.

It has been our personal experience that whenever we called the rifleman's attention to the fact that he was simply wearing out his gun barrel by cleaning, and reducing its usefulness as far as accuracy was concerned, he would invariably give us a pitying look and continue scrubbing the bore. So, we finally decided to leave it this way; namely, that if he got a kick out of cleaning his gun, why spoil his pleasure?

Not being alone in the thought that cleaning a gun simply reduces the life of usefulness of that gun because of lost accuracy, we got quite a kick out of a statement made by a Marine officer at Quantico during the Eastern Small Bore Matches in July, 1942. He said that more guns were worn out by cleaning than by actual firing. There being something like 500 shooters present at the time, we hoped that this definite statement would help the cause. However, we still see shooters cleaning their rifles after firing with non-corrosive ammunition and while a few still use Lesmok cartridges, which are corrosive, the percentage is very small indeed.

It is rather interesting to go back to the origin of "Kleanbore," which is the name selected from 10,576 suggestions submitted in a nation-wide contest in 1926 which resulted in Remington announcing to the world it had developed a non-corrosive priming mixture for use in .22 rim fire cartridges which would make it unnecessary for anyone to worry about rusted barrels any longer.

And so, this magic name and equally magic cartridge became household names in the firearms and ammunition world. It is rather interesting to remember back to the days when a gun left overnight without cleaning would rust sufficiently to ruin its usefulness forevermore, and that the powder residue was blamed for this.

We have personally heard experts state with much emphasis that the acid residue from the powder was responsible for the rusting of gun barrels after firing. Be that as it may, the perfection of "Kleanbore" priming has made it an outstanding feature in all Remington sporting cartridges and shot shells regardless of caliber, gauge, velocity or range. No, you don't have to clean it any more.

* * *

Speaking of primers. Did you know that the first center fire primer was made about 80 years ago by Remington (U.M.C.) commercially? It was called a central fire primer because of its position in the head of the cartridge, although in military circles it was generally called a "Berdan Primer" after its inventor, Col. Berdan.

The process consisted of placing the priming mixture in a little cup and then seating this cup in a pocket in the center of the base of the cartridge. In the center of the pocket the shell case was shaped so as to form a point which made contact with the priming mixture. This point was called the anvil. When the hammer fell and struck the firing pin, the primer mixture was compressed against the anvil, and the resulting friction caused the priming mixture to explode, whereupon the powder became ignited through small openings or flash-holes.

Many changes and improvements have been made in primers since Col. Berdan's time, but the principle still remains the same.

* * *

"Kleanbore" & "Rangemaster" are Reg. U. S. Pat. Off. by Remington.

SOMETHING TO INCLU IN YOUR POST-WAR PLA NG

Along with all the post-war planning that's being done these days—how about some post-war planning for *pleasure?*

How about fixing an eye on Remington's famous Model 37 target rifle right now and saying to yourself *"By golly, I've always wanted to own the world's finest target rifle, so after the war, that Model 37 Rangemaster is one of the things my War Bonds are going to buy."*

The Model 37 is indeed the world's finest target rifle—a sturdy precision instrument, built to the tolerances of a fine watch, and fully equipped for immediate use on the rifle range.

Noteworthy in the Model 37 is the comfort full stock with high comb for better sighting—and perhaps most of all, the sensational trigger mechanism that absolutely eliminates back-lash.

A host of other "plus" features combine to make this the outstanding target rifle of all time.

Remember that—when the war is won and sporting rifles are available again! *Remington Arms Company, Inc., Bridgeport, Conn.*

THERE'S ONE IN EVERY CLUB . . . . Thanx"

Remington News

A PAPER FOR PEOPLE WHO SHOOT

"Maybe next year, Queenie!"

"Mallards! Gosh, don't they remind me of some swell times!

"Gets *you* kind of excited too, Queenie, doesn't it? I understand. My dog was a lot like you, and I know how he loved hunting.

"There'd be cold, gray autumn mornings when the wind almost blew our ears off. Just the right weather for ducks. I'd paddle us out to our favorite hunting place in the marsh. Pretty soon our wooden decoys would be bobbin' away, natural as life, and a big flight of mallards would start down to get chummy. Then—*whammo!*

"No matter how far away the ducks dropped, that dog of mine used to retrieve 'em every time. I'll bet you did too. And boy, what wouldn't we both give to do some duck hunting this season!

"But there's a war on now, Queenie. We're in the Coast Guard, and we've got a job to do. Maybe *next* year . . ."

* * *

Remington's job right now is to supply a lot of military arms and ammunition fast. Here is what we are doing:

1. ***Every working day,*** *Remington produces* ***thirty million*** *rounds of military small arms ammunition.*

2. ***And, every working day,*** *Remington produces more than enough military rifles to equip an entire infantry regiment at full fighting strength.*

After the war is won, we will again be serving our sportsmen friends with Remington shotguns and rifles, Nitro Express shells, Kleanbore Hi-Speed .22's, and Core-Lokt big game bullets. *Remington Arms Company, Inc., Bridgeport, Conn.*

Remington Model 513T bolt action target rifle, and Palma Kleanbore .22's.

"Nitro Express," "Kleanbore," "Hi-Speed" and "Palma" are Reg. U. S. Pat. Off. "Core-Lokt" is a trade mark of Remington Arms Co., Inc.

SPEED THE VICTORY! BUY WAR BONDS!

Remington

DU PONT

7. Density of loading—how much air space remains in the case after the powder has been loaded and the bullet seated.
8. Temperature of the gun and cartridge at the instant of firing.
9. Temperature and humidity conditions under which the ammunition has been stored.

A change in any *one* of these factors will change the pressure in the gun when the cartridge is fired. Both gun and ammunition are quantity production items requiring manufacturing tolerances and they are used under constantly varying conditions. The impossibility of developing specific mathematical formulae based on "constants" is readily apparent.

How and why do all these things affect pressures? In the chapter discussing "Powder and Primer" it was pointed out that the *speed of burning* of modern smokeless powder is controlled by its *composition, size, shape,* and *density* of the grain. It was also said that as the compression built up inside the case the speed of combustion was proportionately increased. No definite figures are available but one competent investigator reached the conclusion that the rate of burning of smokeless powder inside a gun, at modern operating pressures, was about 100 times the speed of powder burning in the open at atmospheric pressures. In other words, the speed of burning may vary all the way from 1 x 1 to 100 x 1 merely by reason of variations in the pressure under which combustion takes place. This explains why most of the above factors affect pressures.

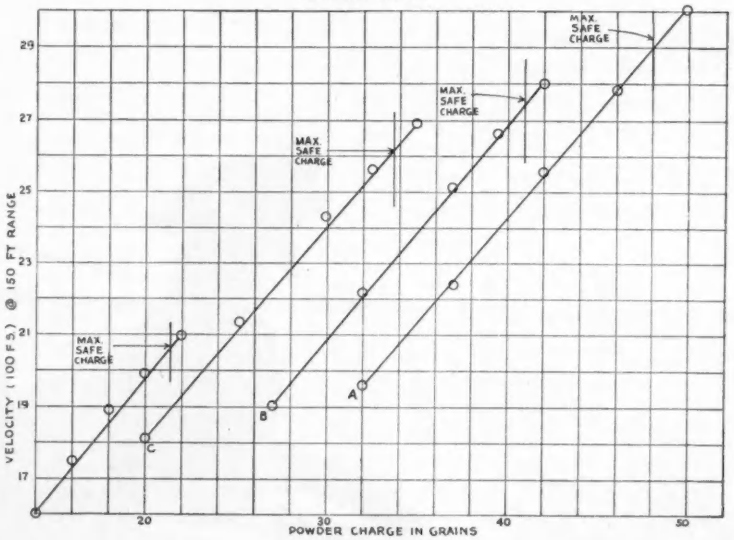
Factors 1 and 2 were thoroughly covered in the chapter on "Powder and Primers." Changing the composition of the powder or the shape of the grain will change the burning speed, the temperature of combustion or the volume of gas. If we have a powder that requires a "cool" primer to ignite it properly and we try to use, instead, a "hot" primer we are going to speed up the ignition of the charge, increase the temperature, and expand the powder gases much faster than we originally intended. The result may be a blown up gun.

Factors 3 and 4, the type of bullet and of crimp, affect pressures. The bullet acts like the stopper in the neck of a bottle of fermenting liquids. Until the stopper begins to move the pressure will continue to build up inside the bottle. If the stopper doesn't pop out in time the bottle will rupture. Of course, this is not an exact simile because even after the bullet starts to move and passes from the neck of the cartridge into the bore of the gun it still serves as a "cork" or piston and the expanding gases keep pushing until the bullet has emerged from the muzzle. This explains why the hardness and toughness of the bullet affect the pressures required to push it into the rifling and down the spiraling bore. The greater the resistance set up by the bullet the higher the pressures must build up behind the bullet. Similarly the *weight* of the bullet affects the resistance which the powder gases must overcome before the bullet begins to move.

A point which many shooters overlook in connection with bullet resistance is the question of *shape*. The shape affects the amount of bearing which the bullet will have against the walls of the bore. Bullets of the same composition and weight may set up different frictional resistances because one has a longer bearing surface than the other. Round-nosed, Spitzer-pointed, and pencil-pointed bullets of equal weight will have different bearing surfaces. Two bullets of equal weight and with the same shape of nose will have different bearing surfaces if one is boattailed and the other flat base—a situation which is not evident after the bullets are loaded into cartridge cases. It, therefore, follows that just because a certain load of a certain powder develops certain pressures when loaded behind a 150-grain bullet, we cannot take it for granted that this same powder using the same charge will develop the same pressures with *any* 150-grain bullet.

Obviously, the degree of tightness with which the bullet is held in the neck of the case by the crimp or tension of the brass affects pressures in the same way as variations in the bullet itself. So important is this particular point, and so nearly impossible to determine by visual examination that ballistic laboratories are equipped with a calibrated bullet-pulling machine which measures accurately the number of pounds of pull required to start the bullet out of the cartridge case. Permissible tolerances in bullet diameter, in the thickness of brass at the neck of the case, and in the inside diameter of the case make it impossible to obtain *absolute* uniformity of bullet pull. The variation which may be safely permitted varies with different cartridges and loads.

GRAPH FOUR



Factor Number 5, the type of chamber, was discussed in the chapter covering the "Chamber and Cartridge". It was pointed out that the long, straight chamber presented ignition difficulties because the rear end of the powder charge near the primer would begin to burn long before the forward portion of the charge. As a result some of the powder in the forward end of the case might be pushed out of the bore with the bullet without contributing anything to the *propulsion* of the bullet. Loaded in a short, fat, bottle-necked case, the primer would ignite the center of the entire charge evenly.

(*To be continued*)

Talkin' Turkey

(Continued from page 16)

times. If this one had stuck to "Shank's Mare" he would have been all right. But he didn't. His great bulk soared into the clear above the dense growth at the edge of the clearing. I swung with him, and dispatched the load of Number 2's. He was *my bird*.

In the Carolinas and Virginia, the customary weapon for turkeys is a heavy 12-gauge duck gun, choked full in both barrels. But a gun with the right barrel modified and only the left full-choked will handicap the shooter none at all. In Alabama, where turkey shooting is permitted in the spring gobbling, or mating season, a rifle is often used to pick out the gobblers. Many times I have wished for a rifle to reach out for a long shot impossible to take with the shotgun. To my mind the ideal turkey gun would be a 12-gauge shotgun as above with a .30-30 rifle barrel snuggled down beneath the two smooth-bore tubes.

I know that suggestion for a perfect turkey gun will start an argument. Some man will insist that a .22 Hi-power would be better. Not for me; a .22 Hi-power would make mincemeat of a turkey. Somebody else will suggest a .25-35. Again, not for me. In my opinion, the .25-35 hasn't the punch to stop a big gobbler. Still another will vote for a .22 Hornet. Others have developed reduced loads for their high-power rifles. It's mainly a matter of personal preference. Me—I happen to prefer the .30-30.

The basic point in selecting a turkey rifle, in my opinion, is that the load should include one of the heavier bullets travelling at what today we consider a relatively slow rate of speed. High-speed, small-caliber bullets have too much blasting power. What we want in turkey shooting is stopping power without the blasting effect which destroys meat.

In shotgun ammunition, I recommend speed shells loaded with an ounce and a quarter of Number 4 chilled shot for the first barrel and Number 2 shot for the second. This is, of course, in 12 gauge. If you are uncertain about distances, compromise by using the 2's. I hate to think of the fine birds I've lost by trying to reach out for them with Number 6's.

But toting the right armament is only a minor item in the complicated business of hunting turkeys. The aspiring hunter must know all the turkey tricks and he must be an expert on turkey lore. The first business of the turkey hunter is to make contact with the game. This demands a full knowledge of the everyday life and habits of the birds. Turkeys range over wide woodland areas and unless the hunter knows the hunting range thoroughly he should have a guide who does know where and how the local turkeys range, what they eat, and where. He will have scouted the locale for weeks before the hunt studying the movements of the various flocks and will have them all carefully spotted.

Many of the old turkey hunters I know spend all their spare time in the pursuit of this wary bird. During the closed season they spend their time studying the birds' movements and their behavior at all seasons. They locate their preferred feeding areas and they know all their favored roosting trees. They know a multitude of details of the personal life of the turkey, many of which seem insignificant or unimportant to the uninitiated. But frequently this knowledge, or the lack of it, spells the success or failure of the hunt.

Patience and perseverance—keen observation of turkey habits—and the ability to "talk turkey." These are the attributes of the real turkey hunter. Learn them, and you will have mastered one of the most sporting of all sports, played against one of the worthiest opponents.

"It Ain't the Gun; It's Me!"

For years now I've been reading articles on this and that handgun; good articles, but all of them overlooking (if not actually low-rating) my own pet gun! This rather irks me, because it just happens that this little gun answers my needs perfectly.

The gun in question is the little Harrington & Richardson Model 6 revolver with two-and-a-half-inch barrel.

"Well," you say, "so what?" Or maybe you're less kind and say, "Aw, nuts!"

But look: This little gun weighs only ten ounces—three ounces less than the Colt .25 automatic. For my use, that is just that much in its favor. I'm a trapper and go into the woods well-laden, what with traps, digging tools, etc., plus whatever fur bearers I take in the course of my day's travel. This little ten-ounce pal adds little to my burden.

Too, this little gun holds seven .22 Long Rifle cartridges, which means that I can do my shooting at less than a cent a shot; or I can use .22 shorts and get in a lot of real practice for darn near nothing! To me, that is important. Ammunition costs do mount up; and, so far, shooting a gun is the only way I've found that will teach me to put those pills in the target!

Understand, I'm not touting this gun as a target pistol; but it does shoot plenty straight, accuracy with it being directly in proportion to the amount of time and practice given to learning to shoot it. I'm not a good shot, and I admit that I was discouraged after my first efforts with this little gun. But I had a hunch it was *me*, not the gun; so I got down to business. I had no idea of trying to put bullet after bullet into the same hole in the target, but tried only to keep them within, say, a two-inch group. This practice paid off. Many times I've sent a slug through the head of a moccasin or rattler at ten feet or better; the sort of practical accuracy I wanted.

Because of its size and the ease with which it can be carried, this little revolver is the finest small pocket defense gun I've ever seen. For stopping power at close range, our high-speed .22 Long Rifle hollow-point cartridges will do the business if you can place 'em; and with the low cost of ammunition (in times when you can get it at all!), this gun makes it practical for you to learn to place 'em.

We all try something new now and then, and in one of my experiments I hit on something that might be of interest to others.. On the trapline I carry a small belt axe. I found myself using this axe as a shoulder stock. Putting the axehead to my shoulder and holding the end of the axe handle in my right hand along with my gun, and resting the gun butt in the palm of my left hand, I got a solid rest that just about doubled the accurate range of my revolver shooting. Maybe some of you other woodsmen would like to try it.

Meanwhile, don't sell the little, short-barreled, less-than-ten-dollar guns short! Treat 'em right, learn to shoot 'em, and they'll do a job for you!—James E. Nogle.

POWDER SMOKE: READERS COMMENTS THE NEWS DESK

RE-LOADS . . .

IT WON'T COME TO THAT—WE HOPE!

Arcadia, California.

Editor:

With regard to your notice in the last issue of the RIFLEMAN to the effect that you must cut down on paper—we're for anything that will help win the war, but for God's sake go ahead and print the magazine, even if you have to use toilet paper! We can't do without the RIFLEMAN!

Paul A. Woods.

Someone suggested that we should double our advertising rates, now that the ads can be read from both sides of the paper!—ED.

SO WE GROW

Lowry Field, Denver, Colorado.

Editor:

I sure appreciate receiving my copy of THE RIFLEMAN. I owe most of my success in the Air Corps to my NRA training and the knowledge gained by reading THE RIFLEMAN since 1935. Due to my knowledge of firearms I was retained, after completing my basic training, as an instructor in the Armament School, Lowry Field, later receiving the rating of Staff Sergeant. The mechanical knowledge obtained from reading THE RIFLEMAN really helped! I'll never regret the day I joined the NRA and I'll bet thousands of others have been similarly benefited.

Incidentally, several of my friends here would like to join NRA. Can you guarantee them issues of THE RIFLEMAN? They have been reading mine but want their own in anticipation of the time when we will be separated.

S/Sgt. Vincent E. Diak.

LESS G. I.?

3rd Air Depot.

Editor:

I suggest that you roll the RIFLEMAN in heavy Manila paper for mailing to men overseas. Mine come in bad condition, some of them with half the Arms Chest missing.

How about soft pedalling the G. I. stories? We're fed up with G. I. Give us more of the old homespun stuff; the old RIFLEMAN we used to know.

Sgt. F. J. Moore.

ADVERTISERS TAKE HEED!

Macomb, Illinois.

Editor:

Did you ever poke a stick into a bee hive to see what would happen. I did! Twice! Once when I was a boy, and again when I placed an ad in the RIFLEMAN offering one case of shotgun shells!

Please ask the boys to let up! I'm out of shells and out of stamps! In one day I received sixty-two letters, sixteen telegrams and five long-distance telephone calls!

Yes, an ad in the RIFLEMAN gets results! Sorry I didn't have a carload of shells!

Harry R. Sapp.

RECIPROCITY

East Worcester, New York.

Editor:

I get and enjoy THE RIFLEMAN, as always. Please tell the boys that I made Expert with the rifle (178 x 200) and that if they'll continue to do their civilian job, training, we in the Services will do ours by putting our shots where they'll hurt!

Pvt. Gerald L. Cox.

THE MAN BEHIND THE GUNNER

Lewisburg, Pennsylvania.

Editor:

Our club is changing rapidly, and growing. Our Junior team will be nearly new, as five of last year's team are in the Army. But there are fifteen new members, and more coming.

Expensive as they are .six new rifles have come into the club in the last four weeks, and that's a help! Anyone who has run a club on a shoestring, with his own rifles, as long as I have is sure to be delighted to see fifteen or more pretty good rifles on the rack!

H. M. Wolfe.

To these men who have devoted their time, their skill—and their own guns—to the chore of "teaching Young America to shoot", America owes a debt of gratitude that increases as more and more bullets sped by Yank marksmen strike home on enemy targets.—ED.

AN HONORABLE MAN

Wheeling, West Virginia.

Editor:

I have noticed complaints regarding bidding on classified RIFLEMAN ads and think both sides should be heard. I recently answered an ad placed by Mr. J. B. Pitchford, of Bossier City, La., for a spotting scope. In spite of the fact that Mr. Pitchford received higher bids, he honored my order which arrived first. I think your readers should know that many of your advertisers are men of honor.

W. L. Rawlings.

LESS GUN—MORE JUDGMENT?

La Barge, Wyoming.

Editor:

"Cannon For Canada", by H. V. Stent, in the August RIFLEMAN was just about the best I have seen! I think gun editors and "experts" are wrong in advocating such big guns. All real woodsmen know that just about any gun will kill any animal if the man behind the gun can and will do his part.

The .30-30 carbine is just about the handiest gun that was ever made for a man in the wilderness and anybody who says it hasn't enough killing power just doesn't know how to hunt or handle a gun!

Why tell hunters to use big guns and fill them full of stories of game killed at 400 yards or further? Anybody who is taking chances on game at more than 200 yards just doesn't care about the suffering of big game dying from belly hits; and I've seen enough crippled elk in the mountains where I trap to know that there's a lot of that kind of shooting going on.

E. Paulin.

IT'S A GOOD IDEA!

New York.

Editor:

The Seventh Regiment Rifle Club, which is about to enter its seventieth year of activity, believing that the Club funds could be invested in no better way than in the promotion of national defense, has accordingly purchased one United States Savings Defense Bond, Series G, in the principal amount of one thousand dollars.

P. Randolph Harris,
Treasurer.

HERCULES PISTOL MATCHES

Led by Ernest W. Houck, whose 299 x 300 set a new all-time individual record for Hercules plant guards, the New River Ordnance Works topped the thirteen teams entered in the September Hercules Powder Company pistol competition. This is the second time the New River team has won possession of the trophy awarded the winner of the monthly contest between teams from all Hercules plants.

Average for all teams competing in September was 1360, an improvement over past averages. One more team shoot will be held this year and in October a tournament will be staged to decide the individual championship of all guards at all plants.

ILLINOIS PISTOL

The Tri-County Pistol and Revolver League of Illinois rang down the curtain on the outdoor season with its registered Class C match at Lincolnwood, September 19th. Art Kelchauser, of Chicago, topped the field by winning five of the seven events and placing third in one other. W. R. McCartney, Chicago, won a first, three place, and two class awards. Ken Smith, Chicago, took one first and one third; and Charles J. Code, Hollidaysburg, Pa., won three place and one class prizes. George Gorham, from the Great Lakes Naval Training Station, took one second and one third place, while Joe Anderson, Louisville, Ky., scored two class wins and one second place. Bob Maloney of the home club was high man in the Marksman Class with four firsts.

This match rounds out a full summer of shooting. Four outdoor matches were sponsored by the League during the 1943 season, with a total of 247 shooters competing and $482.72 in prizes awarded.

OHIO RIFLE CHAMPIONSHIPS

Andy Yearsley, now of Dayton, one of the veteran riflemen of the nation, is the new Ohio State Small-bore Champion, winning the state title and the Dr. McManes Memorial Trophy at the Ohio Rifle and Pistol Association tournament at Mt. Gilead, September 12th. Yearsley's winning aggregate of 1580-83X was just three X's above

that of Ed Dobscha, of Willoughby, Ohio, who placed second.

The Central Ohio Rifle League won the inter-league match with a score of 6299, eight points ahead of the Cleveland Civilian Marksmen's Association which placed second.

Gordon Lumley, of Cincinnati, won the three junior matches and junior aggregate to become the new State Junior Champion.

J. Dailey, of Akron, won the Dewar any-sights with 399-25X. Perry Grossklaus, Navarre, Ohio, won the 50-meter any-sights with 398-21X. E. (Manny) Kessler, of Canton, won the 50-meter metallic with 396-21X; and Sam Bond, first winner of the Dr. McManes trophy in 1940, took the Dewar metallic with 398-20X.

LONGEST INDOOR RANGE

A new 600-yard testing range, three times the length of any previous enclosed range in this country, has recently been completed by Remington Arms Company at its Bridgeport, Connecticut, plant. The huge "tube" is fifteen feet wide by twelve feet high, with walls fifteen inches thick of steel-reinforced concrete. It is so lighted that it can be placed in twenty-four-hour operation when necessary to do so.

The shooting room has three bays, each connected by telephone with tracer observation points on the roof and with the target tender at the butts.

Remington's new six hundred yard testing range; longest enclosed gallery in the world.

The target room at the butts is manned by trained workers who make observation checks and measure targets for accuracy.

Gas and smoke are removed by two blowers, one at each end of the building, which pull in fresh air and eject the bad. Employees are safeguarded by elaborate safety devices.

Designed particularly for the testing for accuracy of .30 and .50 caliber cartridges at 600 yards, several thousand rounds are fired in the new range daily. Devoted now entirely to the testing of military ammunition, this unique addition will be extremely valuable later on in the development and improvement of sporting ammunition.

COMING EVENTS

Registered Class C Tournaments

California, November 13-14 — Pacific Southwest Small Bore. Sponsored by Glendale Rifle and Revolver Club. J. E. Cornell, 662 Arden Avenue, Glendale.

Florida, November 6-7—Florida West Coast Small Bore. Sponsored by Clearwater Rifle Club. L. W. Abrams, 705 Prospect Avenue, Clearwater.

Kentucky, November 14—Louisville Open Pistol and Revolver Championship. Sponsored by Louisville Rifle and Revolver Club. J. R. Anderson, Jr., 1063 Bardstown Road.

Louisiana, November 14—Second annual South *Louisiana* Pistol. Sponsored by Crescent City Rifle & Pistol Club. Thomas L. Hollis, 6323 Patton St., New Orleans.

STOLEN GUNS

Browning "Sweet Sixteen" automatic shotgun, Serial Number 107679. From Lincoln Park Gun Club. Notify Harry Davies, 1428 North Wells Street, Chicago.

NEW CARBINE CARTRIDGE

Barrel cleaning, that ancient and honorable chore of riflemen, has been reduced to a minimum for troops armed with the M-1 Carbine. Development of a new, non-corrosive cartridge, the primer of which actually leaves a protective coating (rather than the old destructive chlorate deposit) in the bore, has been announced by Winchester.

The new cartridge is the .30 caliber pistol type, muzzle velocity 2,000 f.p.s. The 110-grain bullet is sheathed in "clad metal," a copper-clad steel made by rolling a copper alloy on both sides of a hot sheet of special drawing steel.

Joe's chores are not entirely cancelled, however. The carbine still has to be cleaned! But he can thank civilian research for the discovery, and Army Ordnance for the choice of ammunition that reduces his gun-cleaning labor to a minimum.

ANY TAKERS?

From Robert J. Sjoberg, Los Angeles, California, comes a clipping from the "classified" section of the Los Angeles *Examiner.* The two items marked read as follows:

"WILL SELL 1 box .33 rifle cartridges for $40."

".30-30 AMMUNITION. $15 BOX."

Anybody want to go hunting?

REPORT OF BUSINESS MEETINGS

The seventy-second Annual Meeting of the Members of NRA was held in the Sapphire Room, Hotel Mayflower, Washington, Friday, September 17, 1943, at 8:40 P. M., Vice-president Lieutenant Commander Thurman Randle presiding. The following Life Members were elected as Directors for the three-year term ending in 1946:

Maj. General M. A. Reckord, Maryland.
Mr. J. W. Woolrey, Colorado.
Mr. E. N. Littleton, Ohio.
Major General Winfield S. Price, New Jersey.
Mr. Russell Wiles, Illinois.
The Honorable Joe Starnes, Alabama.
Mr. Mark Cooper, Georgia.
Mr. Walter F. Day, Washington.
Captain J. F. Holmes, Indiana.
Lieutenant M. F. Driver, (Police), Michigan.
Mr. T. J. Imler, Arizona.
Mr. Harvey O. Scofield, Washington.
Mr. Carl E. Kastner, New Jersey.
Lieutenant Colonel E. V. Wooten, Oregon.
Mr. Harlow Pease, Montana.
Mr. Frank T. Parsons, Jr., Washington, D. C.
Mr. Byron Engle, Missouri.
Mr. E. F. Mitchell, Massachusetts.
Mr. I. O. Brenneman, New Mexico.
Mr. John Aitken, North Dakota.

A meeting of the Executive Committee was held at the Association's offices Saturday, September 18, 1943, at 10:00 A. M., Vice-president Lieutenant Commander Thurman Randle presiding. Regular reports of the finances and policies of the Association were submitted and approved.

Both meetings discussed the matter of distribution of ammunition to clubs for training purposes and, in accordance with a resolution passed, officials of the Association met with members of the War Production Board and a plan has been authorized which permits distribution of ammunition through jobbers now holding contracts with the Defense Supplies Corporation. A list of these jobbers and detailed instructions for the ordering of ammunition has been compiled in a special bulletin already mailed to NRA clubs.

AMMUNITION SHORTAGE?

An Army Ordnance bulletin tells us that since war began Ordnance has produced one piece of artillery for every forty-six U. S. soldiers, more than 1,000,000 machine guns, more than 5,000,000 rifles and submachine guns, and more than 22,000,000,000 rounds of small-arms ammunition; enough cartridges to devote 1,500 rounds to each individual Axis soldier!

In the final forty-six days of the Tunisian campaign, 38,000,000 rounds of ammunition were fired by allied troops; 300 different types by ground forces and 220 different types by air forces. One Ordnance depot alone

handled a daily average of from 200 to 500 calls for battle weapons and ammunition. Average output of this one depot: thirteen combat vehicles, 296 tactical vehicles, six cannon and from seventy-one to two hundred tons of ammunition—daily!

Do you still feel misused because you can't buy sporting ammunition? You shouldn't. It's going where it will do the most good; to help rebuild a world in which, again, sportsmen can shoot—for sport.

FLORIDA CLASSIFICATION

In many sports in which competitors of unequal abilities participate, some form of *handicapping* or of *classifying* needs be applied in order that new competitors or those of limited experience be induced to take part.

Few, if any, handicap methods have proved satisfactory in the handgun game. The N R A method of classifying pistoleers has proved just and popular because it is based upon proved ability. It is a satisfactory system when applied to matches in which a majority of competitors are experienced pistoleers.

However, based upon National Match course scores and applying only to 50-yard and 25-yard shooting, it may discourage the tyros and marksmen who are the future of the game and who need the satisfaction of *good scores* which they can make only at short ranges.

A classification system developed and used for a number of years by the Florida West Coast Pistol League has offered encouragement to new shooters and has kept the League active even in war time.

Competitors of the Florida West Coast League are grouped in five classes: D (for beginners), C, B, A, and AA.

Classes D and C shoot the Police course, slow fire at 25 yards, timed fire and rapid fire at 15 yards. Class B shoots the Camp Perry course, all stages at 25 yards. Classes A and AA shoot the National Match course, slow fire at 50 yards, timed fire and rapid fire at 25 yards.

The monthly tournament consists of a program of four matches, 90 shots. If a competitor wins first, second, or third place in the aggregate in his class with a score of 810 or higher, he graduates to the next highest class or thereafter shoots a gun of heavier caliber in the same class.

A competitor may voluntarily graduate to a higher class if he so chooses. If he is qualified in a certain class with a certain caliber, he may shoot in the next lower class with a heavier caliber gun. If he is qualified in a certain class with a certain caliber and desires to shoot a gun of smaller caliber, he must compete in the next higher class.

A new member of the League may shoot in the class of his choice after he has been questioned and advised by the range officers.

Class AA was originally required to shoot all three calibers each tournament. Later the rule was changed, and they fired .22 caliber one tournament, CF the next tournament, .45 caliber the next and repeat.

This classification setup has recently been adopted by pistoleers of the U. S. M. C. Rifle Range Detachment at Quantico.

It encourages new shooters and holds their interest as they graduate from class to class.

Gidge Gandy, President,
Florida West Coast Pistol League.

NEW BOOKS:

"THE SHARPS RIFLE"

By WINSTON O. SMITH

The author's own intense interest in the Sharps Rifle and his appreciation of its importance is responsible for a real service to all Sharps fans, gun lovers, gun historians and others in the firearms category. His enthusiasm carried him, successively, through a study of the rifle's mechanics, of its performance, and of its history. In the course of the latter phase he discovered the amazing fact that this historically important breech-loader had no book of its own, which prompted him to fill the void.

The sub-title, "Its History, Development and Operation", exactly describes the matter covered. It is also a history of those men who built guns by machinery in the 19th century and were associates or contemporaries of Christian Sharps, the inventor of the first successful breech-loader. It marks the inception period of the percussion-and-cartridge single-shot rifle, of production manufacturing, of the floating chamber (Conant gas check) and of metallic cartridges. It embraces the historical period of the Kansas Free-State disorders, of John Brown and Harpers Ferry, of the Civil War, and of the heyday of the buffalo hunter. It is interesting and entertaining as well as informative.

The author places the Sharps breech-loader in the American Hall of Fame with the Kentucky Rifle and the Colt revolver. He found a lot of dope during his assiduous application of enthusiasm and energy to the job of searching out, and digging into, widely scattered sources. The meat of what he found is now compiled between the covers of this first and only complete book on "The Sharps Rifle". It includes loading and components data on Sharps ammunition and identification data on Sharps models; dope on parts, also technical, documentary, historical and reference notes.—F.C.N.

(138 pages, cloth, illustrated, $3.00, William Morrow & Co., Inc., 386 4th Ave., N. Y. C.)

Richard Albert McGoon

From his wife and helper at many Oklahoma matches comes word of the sudden death, September 24th, of Richard Albert McGoon, member and leader of the Enid Rifle Club. Mr. and Mrs. McGoon were on vacation at the Lake of the Ozarks. Death was caused by a heart condition brought on by over-exertion.

Mr. McGoon was a Life Member of NRA. He was a tireless worker in the promotion of his own club and in the forwarding of marksmanship generally. He served as referee and in other capacities at many meets and his loss will be severely felt by Oklahoma riflemen.

Frederick DeLaFleur

At the age of seventy-three years, Frederick J. DeLaFleur, Life Member of NRA and for thirty-five years United States referee in bankruptcy, died of a heart attack while on his forty-third hunting trip in the Gaspe Peninsula, Canada, October 3, 1943.

Judge DeLaFleur had made big game hunting his hobby and the den in his home in Utica, New York, held an extensive collection of sporting guns.

He was a graduate of Hamilton College and a member of the Emersonian Society. He was admitted to the bar in 1898. His wife and three children survive him and the riflemen of New York state will long remember him as a true friend of shooting and a militant advocate of sane gun legislation.

AMMUNITION CEILING PRICES

The following excerpts are taken from a new order of the Office of Price Administration, which supplements the General Maximum Price Regulation.

SEC. 6.24 *Ammunition.* This section establishes maximum prices of ammunition, other than hand loaded or military items, for sales at wholesale and retail, including sales by individuals.

(b) *Maximum prices of retailers and others.* (1) The maximum price, inclusive of Federal Excise Tax, for a sale by any person to an ultimate consumer of an item listed below shall be the price listed below for that item. Sales of standard boxes shall be at the price listed per box; sales of quantities less than one box shall be at the price listed per shell or cartridge.

TABLE OF MAXIMUM PRICES FOR SALES TO CONSUMERS

	Price	
	Per box	Per shell or cartridge
12 gauge	$1.38	$.07
16 gauge	1.32	.07
20 gauge	1.32	.07
.22 long rifle, regular	.34	.01
.22 short, regular	.21	.01
.25-35 Winchester	1.41	.09
.30-30 Winchester	1.46	.09
.30 Remington	1.46	.09
.300 Savage-Remington	1.85	.12
.32 Winchester Special	1.46	.09
.35 Remington	1.64	.10
.270 Winchester	2.10	.13

Lower prices than those listed above may be charged.

(2) The maximum price for sales to an ultimate consumer of a box of ammunition not listed above shall be the price per thousand contained in the manufacturers' price lists, in effect during March 1942, divided by the number of boxes in the thousand. The maximum price per shell or cartridge for sales to an ultimate consumer of less than one box shall be the price per box plus 25%, divided by the number of shells or cartridges in the standard box.

The following is an example of how you determine the maximum price of a standard box: 12 gauge long range shot shells are packaged 25 to the standard box. Dividing 1,000 by 25 equals 40, the number of boxes per thousand. The manufacturers' list price of $55.20 per thousand, divided by 40 equals $1.38, the price per box. To calculate the price per shell add 25% to the box price of $1.38, or $.34 for a total of $1.72. Divide $1.72 by 25 (the number of shells in a standard box), to obtain the price of $.07 per shell.

(c) *Addition of state and local taxes.* State and local sales taxes imposed upon the sale of ammunition at wholesale or retail may be added to the maximum prices established under this section provided they are stated as a separate charge on the invoice or sales slip. (Dated Sept. 27, 1943)

ON THE FIRING LINE

WITH THE PRE-INDUCTION TRAINING SCHOOLS

UNEXPECTED BENEFITS

Certificates of qualification were recently awarded to eight members of the first graduating class of the Winsted (Connecticut) Rifle Club's Small Arms Firing School. Benjamin J. Barton, Chief Instructor, writes the story of that accomplishment:

No one in the club (except the Chief Instructor!) knew what was involved in the running of such a school. Our club is small. Limited range facilities necessitated small classes. Small classes meant more classes, more nights of work for more instructors. But the members shouldered the work and classes ran at near capacity.

Problems were encountered, and overcome. Defective sight handicapped some shooters and one of the unexpected benefits from the school was the discovery and correction of such cases. Shooting calls attention to faulty vision, and the desire to excel in marksmanship impels the shooter toward corrective measures that might otherwise be neglected.

Small things can make or break the prestige of an Instructor. For instance, the ability to call shots may impress students more than the ability to shoot high scores. It worked so here. At the close of one session, an Instructor fired five shots sitting and five kneeling while students watched through spotting scopes. The Instructor's ability to call his shots amazed them.

It was found, too, that when a student has difficulty in assuming a firing position he is apt to be physically tired and nervously tense when the position is finally attained and that he needs time to rest and relax before firing. He will shoot better after that brief rest, and the better score will encourage him.

Trigger let-off is always a problem, especially with "plinkers" and shotgun shooters. A great many amateur shotgunners flinch; and it is very hard to teach the "plinkers" to follow through. With them, the habit of lowering the gun instantly "to see where it hit" is ingrained and hard to overcome. Articles from the RIFLEMAN helped in driving home this and other points, and helped keep up interest in lectures.

The first objective is won now and the club is driving ahead to other objectives; the graduation of other classes. And, in spite of all the work involved, in spite of the problems, the club is convinced that the school is of as much value to the members as to the students. Everyone connected with the work is a better shooter and a better club member because of it; and this in addition to the fact that the job itself is well worth while!

Jim Gardner, Jr., age four, readying for foreign duty or Camp Perry. (Coach shown is not necessarily "The Old Coach".—Ed.)

"All battles consist of two things only—fire and movement. For movement to be possible against a well-armed enemy . . . the supporting or covering fire must be well directed and truly aimed. If you happen to be defending, the enemy is moving and if your fire is not well aimed it will not stop the enemy's movement. . . . Success in battle depends on accurate shooting, and no matter how well organized you may be, how good your communications are, how good the administration is, all that is valueless if all ranks are not absolutely efficient in the use of their personal weapons."

Major General P. J. Shears, Great Britain.

KINDERGARTEN FOR SHARPSHOOTERS

Our second class is graduated now. There are nine boys in it, their ages averaging a little less than that of Class Number One, which averaged seventeen years. Class Number One graduated fifteen boys out of a starting roll of twenty.

Four instructors for that many boys may sound like too many, but—it's not! Those boys have to be watched every minute. They're just emerging from the "toy stage" and a gun, when they first get it, is just another plaything. They'll bang it around as if it were a baseball bat, or drop it on the gravel, or swing it around, loaded, until it's pointing at somebody's head. Kids are like that; thoughtless.

But unless this war takes a different turn very soon, those kids are going to be in some serious business in the near future; and teaching them to shoot is a way to prepare them for it.

They're thoughtless; they require watching; but they're adaptable, too, and eager to learn. One thing that surprised us—they were stiff and could not get into the positions easily. They grunted over it like old men! But they made it, and some of them settled down into really good shooters.

Another thing that surprised us was their mental alertness. They'd sit through lectures, staring blankly, minds seemingly miles away; but ask them a question and they'd snap right back at you with the answer. It was amazing how much they absorbed. They proved it in their tests. They were better shooters when they finished, better prepared for what's ahead of them.

It did *us* good, too. It was good for us to have to study proper positions, proper technique. It was good for us to get out on the range regularly and concentrate on good shooting. It was work; thankless work, for the most part—boys don't often remember to say, "Thank you"—but we enjoyed it. And there is a lot of satisfaction in knowing that we're doing a little bit for our country, and for the shooting game.

—from Thomas L. Lloyd, South Platte Chapter, Izaak Walton League Rifle & Pistol Club, Denver, Colorado.

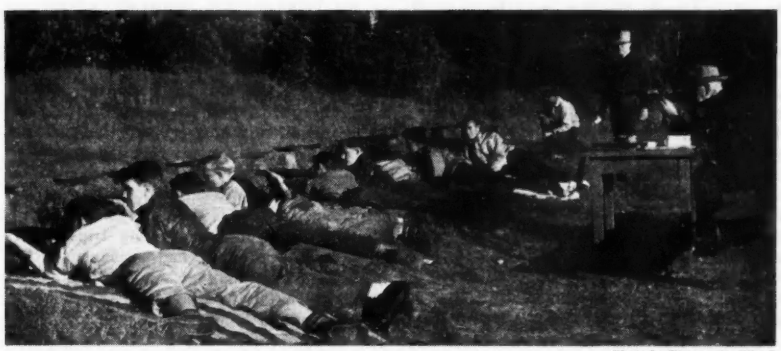


Photo by Thomas L. Lloyd

Many of these lads will be "on the firing line" in deadly earnest soon and this basic training will make them better soldiers.

CREDIT WHERE CREDIT IS DUE

From the San Diego "Union": It's the boys afield who get the headlines. So and so knocks off ten Jap snipers; such and such wipes out a machine gun nest with aimed rifle fire. That's as it should be. They're producing under fire.

But back at Camp Matthews (Marine training camp) the oldsters, and the youngsters, too, pull at their pipes of an evening over the news and say, "Yup, he was a damned good shot when he left here. Couldn't fire for beans, though, when he came." Or the coach will grunt, "Huh! Ten Japs in thirty shots! Damned waste of ammunition!" But his eyes will twinkle with satisfaction.

It takes all kinds to make up this fighting team. Don't forget the coach!

REWARD

Sgt. Russell F. Carr was one of the first trainees graduated from the Small Arms Firing School of the Nester Rifle Club of Norristown, Pennsylvania.

Sgt. Carr learned his lessons of marksmanship well! As a turret gunner aboard a B-26, Sgt. Carr has participated in seventeen U. S. A. F. raids over Italy and has been twice decorated by his commanding general.

The Nester Rifle Club is pretty proud of Sgt. Carr and his medals. That pride is the only coin in which our schools and their workers are paid; but it is a coinage that never suffers deflation; a kind of wealth thieves can't break in and steal.

How rich are you?

DOPE BAG ☆ ☆ ☆ Conducted by F. C. NESS

THIS MONTH:

.22 High Velocity on Game · Quantitative Shooting Comparisons · Bullet Form Experiments · Slide-Action Pup · Mathematical Formulae · M.V. and M.E. Grouped · Tack Kink · Ideal Testing · Laboratory Suggestions · Shortened Pistol · Handgun Components · Loading Ideas · Trade Dope.

THE OTHER SIDE

When the .220 Swift was young, enthusiasts praised its power over deer and larger animals. On those deer and antelope killed within my own limited experience it proved to be amazingly effective, way beyond 200 yards. With custom loads it killed well for my friends at 400 yards and my own long-range attempts, on deer at over 300 yards and on antelope at well over 500 yards, were remarkably successful on high shoulder hits. It appeared to be thoroughly reliable with proper handloads on this type of game up to 250 yards with any kind of a body hit. The only adverse report I received came out of one of our National Parks where the factory .220 Swift ammunition had no better than a 50%-effective record on elk. This was offset by a report from the "North Countree" of its 100%-killing record on several moose, factory loads being used.

Now that the novelty has worn off and blood has cooled somewhat, reports of unaccountable failures of .22 bullets have arrived. In some of these game-killing experiences very high velocities, above those of the factory Swift, were involved. I do not recall that the .220 Swift has ever been recommended for moose, elk, mule deer, caribou, bear, burros, horses, African plains animals, or tougher game, but the super .22 Magnums have been suggested, at least, by intimation of their advocates as adequately powerful and effective for killing many of the beasts on this list. Last year an African hunting party had too many failures with the Super .25 Magnum, and the Super .22 Magnum was "a complete flop" on middle-sized African animals. On wild burros and horses it killed, as only chest-cavity hits were used, but these small-bore Super Magnums did not kill these animals quickly enough to reveal which animal had been hit. None was killed instantaneously or knocked off his feet.

The most sorry report of sour results concerns a 50-grain .22-caliber bullet driven by 65 grains of No. 4064 in a super belted-Magnum, which allowed a wildcat to trot off after a broadside hit at 75 yards. On a dog, shot sidewise at 100 yards through the middle of the body, it failed completely. The second shot through the hips did not knock the dog down. The third shot was fired head-on, into the chest, and the perfect bullet expansion which resulted completely eviscerated the animal. This load sends its bullet through half-inch homogenous armor plate. This same bullet blows up on ground squirrels at 3600 f.-s. On opossum two shots failed to do any damage. Then the .220 Swift cut the same animal in two. Unpredictable, what?

THEN AND NOW

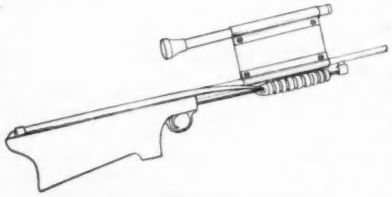
The war-time doling out of ammo to "authorized purchasers" by WPB reminds us poignantly of the prewar period. Our weekly shoots have dwindled to two per year. The few .22 cartridges now allowed outside the training program recalls to mind our machine-rest testing and the several thousand rounds we fired at every session. The dearth of handgun fodder brings back to mind the day I was out with Bill Diers and fired 1200 rounds. The single 20-round box of high-power sporting ammunition, now parcelled out to those nimrods lucky enough to find their load available, reflects memories of the hundreds, yes thousands, of rounds we burned without a worry about supply. The single-box allotment of shotgun ammunition is another reminder.

I am not thinking solely of the several hundred rounds fired in each gun for patterns and other testing. I also think of the fantastically few shots which can now be taken afield, usually with No. 4 shot for a No. 8 job. As a background for these morbid thoughts there is the experience of three hunter friends on two hunting trips. One was a raw beginner and had "beginner's luck" in getting much shooting. Another had newly learned to hit flying game with the shotgun. He was a good hunter but a mediocre shot. The third member was a has-been and an experimenter, who used four different shotguns on the two days. The bag was 3 pigeons, 3 crows, 1 hawk and 55 doves. The total number of rounds fired, in four gauges, was 325! Oh, tempora!

OFFICERS' SHORT CAR RIFLE

Emmet Gray, chief of the small-arms section of the Ordnance Post at Fort Huachuca, Arizona (Box 257) formerly had a gun shop at Roswell, New Mexico, where he spent a lot of time experimenting with conversion jobs. He gave up trying to make an all-around gun, but did make a special freak for law-enforcement officers, who needed it handy and ready for anything at any range.

The original model was only 32 inches overall with a 24-inch barrel. It had a central balance with a box magazine there to hold 10 or 20 cartridges. It was a pump-action repeater with a high-mounted telescope on a super-structure and a bull-pup buttstock behind the action slide. The cartridge was a .30-'06 necked to .25 caliber and the high sight line gave a practical flat trajectory for holding dead-on at all ranges between 100 and 400 yards without change.



Cut shows this rifle as sketched from a very badly blurred photo.

Seven cases were tried before deciding on a short neck and abrupt shoulder. His favorite load is 49 grains No. 4064 and a 90-grain bullet. "It will pierce more armor plate at 250 yards than anything I know of, shot from the shoulder." Gray makes his bullets from ¼-inch copper tubing and his A. P. cores from babbitt as they penetrate more armor plate than carbon steel, he says. "I get the flattest trajectory at 700 yards I have ever seen."

His case shoots everything from 4400 f.-s. down to .25-20 ballistics. For hunting he uses the .25-35 caliber 117-grain bullet at 3600 f.-s., "which does a very nice job on big game". The .25 was his choice for reloading and all-around merit, after finding it difficult to sell the .220 Swift which he made in rifles as light as 5 pounds, and also in the Remington Autoloader which he fired 3000 rounds before he gave it up as a sweet hunting gun for the Southwest, but a poor caliber for selling when his living depended on sales.

EFFECTS OF BULLET SHAPE

In THE AMERICAN RIFLEMAN of December 1942, I reported the improvement in ballistics over 600 yards which we obtained with our .25-caliber rifles through a change in the shape of our bullets alone. We reformed the 87-grain factory bullet from a 5-caliber flat-base shape to a 10-caliber hollow-base and used the same load. G. L. Wotkyns was sufficiently impressed to similarly reshape his .22-caliber bullets for a comparison test in our Varminter rifle.

He sent a standard flat-base 45-grain 8-S bullet and a hollow-base duplicate of the same weight. Also a lighter and longer hollow-base with a 10-caliber head. This one was .690-inch long and weighed 41 grains. The other two had 8-caliber spire heads, and these two measured .670-inch long, for the reformed cavity-base, and .650 inch, for the regular flat-base bullet. We copied some previously chronographed loads designed to give each bullet an m.v. of 3300 f.-s., or about 2R-Lovell ballistics.

An odd thing about these three bullets was their common "C" value of .272, obtained by using the duPont charts and system published serially in THE AMERICAN RIFLEMAN back in 1926. The two 45-grain bullets had a sectional density of .132 and a form value (duPont) of .49, but the 41-grain 10-caliber bullet had an S.D. of only .118 and a shape value of .44 to compensate for its lighter weight and so equalize its ballistic coefficient. That, of course, was on paper. It became quite a different thing in flight, however, because this longer lighter bullet yawed badly when given an initial speed of about 3300 f.-s. in a 14-inch twist. At 100 yards it spread more than 1½ inches, which spread opened to nearly 10 inches in the next hundred yards (at 200) and to nearly 22 inches at 300 yards. The other two bullets gave normal groups, of about 1¼ minutes spread, at all ranges.

The "diving dervish" did not drop more than the other two. At 300 yards its drop was more than two feet, while that of the

45-grain flat-base was just under that. The hollow-base 45-grain bullet dropped about 26½ inches which was nearly 4½ inches more than its flat-base counter-part. As zeroed and fired, the angle of departure of the cavity-base 8-S bullet was .60 minute greater than that of the regular 8-S bullet, while that of the long-pointed 41-grain bullet was 1.50 minutes greater. With these angles and the same scope and at an approximately equal m.v., these bullets gave the following relative impacts:

The regular 8-S bullet landed 2.15 inches above aim at 100 yards and 2.00 inches high at 200 yards, but 5.60 inches low at 300 yards. The cavity-base 8-S bullet landed 2.05 inches high at 100 yards, 1.85 inches high at 200 yards and 7.10 inches low at 300 yards. The 10-caliber hollow-base bullet went .63 inch below aim at 100 yards, 1.75 inches high at 200 yards and 2.10 inches low at 300 yards. In order to zero the latter on the point of aim at 300 yards there would have been required an elevation of 8.15 minutes of angle. In order to zero the cavity-base 8-S bullet there would have been required 8.83 minutes elevation, and for the regular 8-S bullet an elevation of 7.78 minutes would have been required.

Looking at it that way there is not much more than a minute of maximum difference; that is, between the extremes. However, with a scope sight about 1⅝ inches above the bore and zeroed at 100 yards, the 10-caliber hollow-base landed only 0.21 inches low at 300 yards, whereas the two 8-S bullets landed 12.05 and 13.25 inches below aim at the longer range. Now, to examine it more closely for possible inconsistencies, let us see what happened at 200 yards. The 10-caliber hollow-base went three inches high and the two 8-S bullets went 2¼ inches low at that range. Another way of checking is to compare their impacts from muzzle zero. The 41-grain 10-caliber bullet went 7.00 inches below the bore line at 100 yards, 12.62 inches below that line at 200 yards and 24.47 inches below it at 300 yards. The 8-S cavity base from the same muzzle zero went 3.20 inches below the bore line at 100 yards, 10.28 inches below it at 200 yards and 26.11 inches low at 300 yards. The regular 45-grain 8-S flat-base bullet, from the same zero, went 2.46 inches below the bore at 100 yards, 10.85 inches low at 200 yards and 22.69 inches low at 300 yards. The discrepancies in the trajectory curve or dislocations of impacts at the two shorter ranges are due to either oscillation or yaw, I believe, and perhaps local air conditions attending the shooting at those distances may also be responsible.

From this firing test alone, the conclusion would have to be that the cavity base did not materially affect or disturb the flight of the 45-grain 8-S bullet, but did exert a very appreciable influence on the bullet's flight in conjunction with the 10-caliber ogival head radius. We would have to try this 41-grain bullet in flat-base form to learn whether the head shape alone was responsible for its greater yaw or, if only partially, to just what degree. It was certain, only, that the velocity and the pitch were not suited to that shape. Perhaps a quicker twist or a much higher velocity would have "put it to sleep", but we had only a few bullets available, and not enough for determining that.

In my sketch the 10-caliber cavity-base is shown on the left. It has a cylinder length of only .150 inch. The 8-S cavity-base in the middle has a cylinder length of .290 inch, while that of the regular 45-grain 8-S bullet, on the right, is .270 inch. See Cut below.

THE WORLD IN A VACUUM

On page 46 of the April number of the AMERICAN RIFLEMAN is the question:

"Is it possible to load a cartridge strong and fast enough that it will overcome the force of gravity for some length of time or space?"

A simple calculation will indicate that the velocity required is a bit beyond our present accomplishments. If we tie a stone or other solid object onto the end of a string, and whirl it around a curved path, we feel a pull on the string. The force that the stone exerts on the string is called centrifugal force, and the equal and opposite force that the string exerts on our hand is called centripetal force. If an object rotates in a circular path of radius r, it can be shown that the force required to cause the object to follow that circular path, or in other words, the centrifugal force exerted by that object is the product of the mass and the square of the tangential velocity, divided by the radius of the path, or expressed as an equation:

$$C.\ F. = \frac{MV^2}{r}, \text{ or in gravitational units,}$$

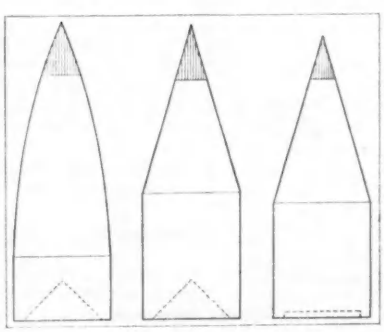
$$C\ F. = \frac{WV^2}{rg}, \text{ in which}$$

C F. = the centrifugal force in pounds,
W = the weight of the body in pounds,
V = the tangential velocity of the object in feet per second.
r = the radius of the path, in feet, and
g = the acceleration due to gravity in feet per second.
per second = 32.16 for our latitude.

The diameter of the Earth is approximately 25,000 miles, or the radius is 12,500 miles = 12,500 × 5,280 feet. If a bullet were traveling around a circular path of radius r = 12,500 miles with sufficient velocity for the centrifugal force to just balance the pull of gravity on the bullet, considering the center of the Earth located at the center of that circle, then we have the condition, $C.\ F. = \frac{WV^2}{rg} = W$, whence $V^2 = rg$, or $V = \sqrt{rg}$.

Substituting the given figures in this equation, we have,

$V = \sqrt{12{,}500 \times 5{,}280 \times 32.16} = 46{,}100$ feet per second. This means that in order to have the centrifugal force just balance the force of gravity, the bullet would have to travel around the earth with a velocity of 46,100 feet per second. Some of the private experimenters have developed loads that reach close to a mile per second. The "Big Bertha" that shelled Paris from a distance of 75 miles was said to have a velocity of a mile per second, and Mr. Virgil Howe states in his Supplement to The Modern Gunsmith that while he was experimenting at Springfield Armory, they fired one shot that recorded a velocity of 7,100 feet per second. If that velocity has been exceeded at the present time, it must be a military secret, and 7,100 f.-s. is still far short of 46,000 f.-s.—D. G. KRAMAR.



MUZZLE VELOCITIES COMPARED

A correspondent was disappointed with my conservative estimate of his m.v. with a pet load in .25-caliber. Some chronographed velocities were quoted for his comparison and edification. Others may be interested in this dope, and it is given here, all based on .25-caliber barrels 24 inches long.

In the .250 Savage case 36 grains of No. 3031 gives the 87-grain bullet 3075 f.-s. and in the .257 Robert, 2820 f.-s. The 100-grain bullet in factory loads gets only 50 f.-s. higher velocity in the bigger case, but with a handload of 34 grains No. 3031 it gets 2830 f.-s. in the .250 Savage and 2625 f.-s. in the .257 Roberts. The reason, of course, is denser loading with the same charge in the smaller case. These are not recommended loads, but merely interesting comparisons. For a different one with the same 100-grain bullet, a charge of 47 grains No. 4350 gives it 3160 f.-s. in the .257 Roberts, while in the bigger belted case of the .25 Miller Magnum the same bullet is driven by 70 grains of the same powder to an m.v. of 3466 f.-s. Both were fired from 24-inch barrels and chronographed on the same ballistics range.

M.E. AND STRIKING ENERGY

In answering a letter recently I had occasion to refer to the factory ballistics on 300-grain bullets. These are delivered at so many different initial speeds, from the .375 Magnum, .405 Winchester, .45-90 and .45-70 rifles, readers might be interested in a table of factory figures for comparison:

	M.V	*M.E.*	*100 Yds.*
1.	2580 f.-s.	4435 ft.-lbs.	3525 ft.-lbs.
2.	2563 "	4375 "	3335 "
3	2540 "	4300 "	3495 "
4.	2220 "	3285 "	2510 "
5.	1985 "	2636 "	1800 "
6	1885 "	2365 "	1620 "
7.	1605 "	1720 "	1040 "
8	1530 "	1560 "	1075 "
9	1530 "	1565 "	1040 "

(First three are .375 caliber; fourth is .405; remainder, .45 caliber.)

IMPROVE YOUR THUMB TACKS

The short-shanked broad-headed tack used by paper-target shooters is a pesky little thing to handle. It is hard to stick them, remove them, and to find them when dropped into leaves or grass. Robert Caple of International Falls, Minnesota, tells us how thumb-tack trouble has been largely overcome in its use by the Mando Rifle & Pistol Club.

Caple says that, with either brass or steel tacks, they merely solder the mouth of a .22 Long Rifle fired case to the head of the thumb tack and, presto, it becomes a different and more tractable breed of cats. With this .22-case handle on the head of the tack they are handled easily and conveniently, and Caple recommends the stunt unreservedly. There should be a small supply of these improved thumb tacks in the kit of every shooter, he suggests.

AMERICAN IDYL

I don't know how you personally react to the bench-rest shooting game. Perhaps you are too busy to enjoy it in the right way and under the old-time conditions. So let me tell you something. For one thing it is the *ne plus ultra* of rifle shooting. Comparable to three-cushion billiards in its difficulty and exactions on the physical and mental make-up of a man. At the same time it is relaxing and completely wipes the cares of daily life away.

Permit me to describe a typical day which I enjoy yet, and have for the past 20 years. Early of a Sunday morning in the fall of the year I drive four miles to my range which is in a small valley. Then through a gate and over a private graveled road for half a mile to my range. The firing point and bench are in an aspen grove. I arrange all my equipment on the bench, put up the targets on the frames and compose myself in complete privacy, far away from spectators or anything to bother or distract me. The leaves are turning, browns, yellows, and reds. The hills are covered with purple sage and the scent of it is in the air. A pale sunlight, warm but not hot; no mirage or heat waves to bother me.

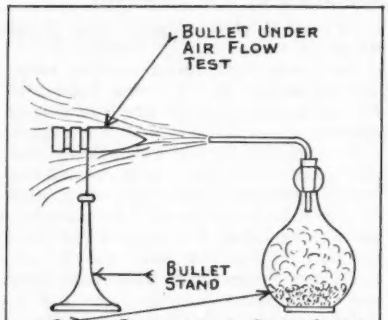
I light my pipe and watch the blue smoke float away in the still air. An atmosphere of perfect peace. Perhaps I will hear the slap of a beaver's tail on the water in the mountain stream 50 yards behind my shooting bench. Then maybe a coyote will trot across an open space in the sage brush. Then again, maybe a flight of ducks will whiz overhead in the direction of my duck ponds which are half a mile north in the same little valley. The thorn thickets harbor coveys of grouse, Chinese and Hungarian pheasant, and the little stream gives excellent steelhead salmon fishing in season.

Well, in these surroundings and under this atmosphere I will start shooting a fine old Pope-Winchester Schuetzen, proceeding as carefully with the loading and firing as with a laboratory experiment. Most of the shots will be 10's, of course, and now and then I'll plunk 10 of them right in the X-ring for a group of ⅞-to 1-inch. There is a calm satisfaction in that; few things can equal it, I've found.

When noon comes, with 100 well-aimed-and-placed shots behind me, I take a couple of good jolts of sound 100-proof bonded rye whiskey. Make a small fire of dry birch twigs and broil a tender steak over it. Feed my 100-pound Irish setter and, perhaps, take a short nap in the back seat of the big Buick. Then up and at the targets again and, perhaps, more tight groups. I keep this up 'till the sun sinks over the western hills and the long shadows creep over the range. Then home to the Sunday paper and the big easy chair. It probably takes on old back-country stumbler like me to enjoy things like the above. But enjoy it I do, and each season's shooting and each new gun gives a keen thrill.—V. E. LAYNE.

SIMULATED AIRFLOW

A Marine Technical Sergeant, H. R. Cooper, came in from his spot in Virginia and submitted a couple of suggestions. One of these is a set-up designed to simulate airflow around a bullet by using vapor directed at its nose from a bent glass tube which pierces a stopper in the neck of a thin-glass beaker containing dry ice and water. The bullet is supported on a thin spike or darning needle, knitting needle or long hat pin whose sharp point pierces the side of the bullet. A piece of stiff wire or very slender



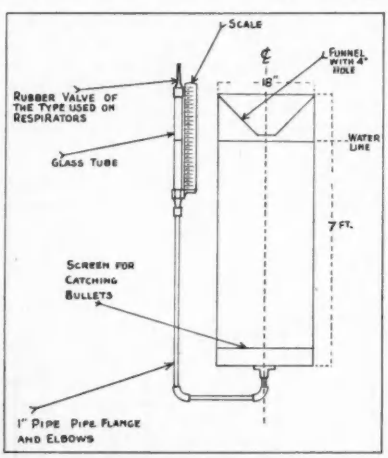
GLASS BEAKER WITH BENT GLASS TUBE AND STOPPER BEAKER IS PARTLY FILLED WITH WATER AND DRY ICE.

rod may be substituted and so bent in a general S-shape that its sharp end may pierce the base of the bullet and thus clear its side for an unobstructed observation of the airflow around bullets of different designs. The dry ice gives off a visible vapor which is thus ingeniously utilized. The suggested arrangement is shown in the accompanying sketch. (Bullet enlarged for clarity.)

HYDRAULIC DISPLACEMENT METER

Another of Sergeant Cooper's suggestions concerns a rig for measuring the relative power of bullets by firing them into a vertical tank of water and noting the degree of displacement in a smaller adjacent column or tube directly connected with the main supply in the tank. The tube, of about ¾-inch size, leads from the bottom of the tank to and along its side until it reaches a height above the water level in the tank, which level will be the same in both columns. The gauge or scale is fixed adjacent to the water level visible in the glass tube. The end of the tube, a few inches above the water level, is closed with a rubber valve of the type used in respirators.

The tank must be deep enough to contain a six-foot depth of water below the funnel-shaped cover. This cover has a small opening, of about 4 inches, through which the bullets are fired. This column of water will stop most handgun bullets and any rifle bullets of equally low velocity. In order to avoid splashing, a sheet of old innertube rubber should be lightly stretched across this opening and the bullets fired through that or some other self-sealing substance. A removable screen in the bottom of the tank should be installed to catch the spent bullets and to avoid clogging the exit to the glass tube.



Cooper's Power Tank

In operation, the water level is read on the scale before and after the shot has been fired. The pressure raised in the tank by the violent entrance of the bullet causes the column of water to rise in the glass tube, and the valve holds this new level at the highest point reached. The power of different loads may thus be directly compared.

SHORT MILITARY MAUSER

In this special job, let me say that the work was not done by me, but by a friend of mine, Tom Gresham of Lynchburg, Va. I merely specified what I wanted done to the 7.63-mm. military Mauser automatic pistol.

The Mauser pistol, as most people of the shooting world know, is characterized by: super power for a pistol, a rather long barrel which, together with the magazine's location in front of the grip, tends to make it muzzle-heavy, and by a rather ungodly grip—both in surface, design, and shape. There are, of course, other features of an individual nature on this gun, but they were not of immediate concern so far as what I had in mind.

The first thing that was tackled was the grip. Its almost perfectly circular contour had to be done away with. This was accomplished by fitting a grip whose sides overlapped to meet each other much in the same manner as is used on the H. & R. revolver. In addition to this, a modified horn was fitted to the backstop (made of wood). I don't believe there is any automatic pistol with an outside hammer that needs this feature more. A regular checking job was then done. The final result is a grip which is considerably flatter than the original, also an extension horn on the grip to prevent the hand from sliding up and causing a possible injury to the hand by being pinched when the hammer is slammed back in recoil.

The next feature altered was the barrel, and here is where a great many people will criticize me for doing it. The barrel was cut to 2½ inches. People have asked me: "Why do you spoil the ballistics of a powerful cartridge by cutting down the barrel?" The answer I give is this: In order to get the best out of this arm (i.e., its extreme range), the [illegal] wooden holster-attachment, which converts the pistol into a miniature carbine, must be used. However, for the average person, whose shooting with a pistol is confined to ranges of not more than 100 yards—this holster is merely a burden. Secondly, in many states the use of this attachment is prohibited by law. [It also becomes illegal under the provisions of the National Firearms Act as a "Machine Gun." —F. C. N.] With the 2½-inch barrel, the gun is neatly balanced, counteracting the weight of the magazine, the arm is more compact, and it still is a potent weapon and a much more pleasing one to shoot.

However, there was one problem which had to be met, and that was the one presented by recoil. In this arm, the barrel moves back about an eighth of an inch to allow the breech block to free itself and move to the rear. The decrease in weight from cutting off 3 inches of barrel did not give sufficient inertia or weight to allow the recoil mechanism to function properly. To counteract this loss of weight, one-half a coil of the recoil spring was experimentally taken off, and this operation was repeated until it functioned properly. The final job was taking off the graduated rear leaf sight, cutting a square sight in its place at the rearmost end of the frame, and then sweating on a front ramp sight.

Many say it was asinine to butcher a fine long-range arm such as this. Yet, what about those who order themselves a 2-inch .357 Magnum S. & W.?—CHARLES W. RAWALLE.

HANDGUN LOADING DOPE

Gordon C. Boser gives us the benefit of his handloading experience in some observations recently received. For ordinary loads he indicates certain advantages afforded by the weaker type of cases. That is, the folded-head variety, the balloon-headed case and the semi-balloon have a greater powder room than solid-head cases, and also they have thinner walls which do not yield or crack from reloading as soon as do thicker or stronger cases. The drawback is their general weakness precluding the use of heavy loads and their local head weakness which leads to undue expansion of primer pockets from repeated firing of normal full-power loads. For reduced target loads, however, these thinner and weaker cases actually have a longer life than more strongly constructed cases. A paradox, perhaps, but true. They do not split at the neck from frequent resizing and reloading as soon as heavier cases. There is a very slight difference in different makes of cases for any given caliber. Boser's principal preference is for ungrooved cases; that is, those without bullet creases.

When possible he uses the particular brand of primers designed for the individual lot of cases being loaded, or he tries to bring together either Western and Winchester components or Remington and Peters makes. Dirty pockets, tight pockets, or loose pockets develop protruding primers on account of incomplete seating or unseating by recoil. Any of these cause effects which interfere with rotation of the revolver cylinder, especially bad in rapid-fire and in double-action shooting. Sometimes a premature discharge occurs when primers are not kept level with the head of the case. Boser uses No. 2½, No. 1½, No. 111, and No. 108 primers when he can get them. He recommends dry storage in original factory containers and avoids bulking them in glass jars in order to avoid loosening anvils. Primed cases whose primers are suspected of containing fulminate of mercury are carefully decapped using a slow steady pressure on the decapper, gloves on the fingers and goggles over the eyes. When detonated by a blow or jar the unsupported primers shatter dangerously.

Boser does not load small cases like the .32 A.C.P., but suggests Bull's-eye powder for this class of handguns. For the Super .38 and .30 Luger he finds No. 2400 unsuitable and prefers Unique. For the H.V. .38 Special or .38-44 loads he also prefers Unique. For the .357 Magnum he prefers No. 2400. For all target loads and for lesser revolver calibers he uses No. 5 and No. 6 as well as Bull's-eye. For the larger revolver cases he likes No. 4759 in full-case loads, No. 6 for normal full-power loads and accuracy in the .44 Special, and Bull's-eye for reduced loads.

For bullet fit in revolvers, Boser never exceeds a sized diameter which gives a snug push-fit through the cylinder bore ahead of each chamber. When this essential fit permits he uses a bullet diameter from .001 to .003 inch larger than groove diameter, or he accepts a snug groove-filling size if his cylinder throat will not accommodate larger bullets. His Colt .401 Special has a groove diameter of .402 inch and a cylinder bore of .404 inch, and he sizes his bullets to .403 inch. Sometimes the cylinder throat is too small for the groove fitting requirement and vice versa. One .38 revolver had a .354-inch groove diameter and a .361-inch cylinder bore. It proved to be inaccurate. Colt guns slugged by Boser generally show .354-inch grooves in .38 caliber and .427 inch in .44 caliber, while S. & W. revolvers run .356-.357 and .429-.431, respectively.

Boser thinks bullet fit important for bore-leading control as well as for accuracy. He uses ordinary Ideal bullet lubricant in his bullet grooves. When there is a tendency to lead he tries to adjust the bullet size for a tighter cylinder-bore and groove fit or he adds a base wad of the same lubricant 1/16-inch thick. One .426-inch Colt stopped its habit of leading badly when the cylinder bore was reduced to .430 inch from .435 inch.

He likes the general design and shape of the Heath-Wilder-Ness-Keith-Sharpe type of wadcutter bullets for target and field work, and he copied their features, in modification, for his own Boser-Ideal designs, made up by Lyman. He likes these bullets for game killing and the standard conical-pointed or round-nose shapes in heavy bullets for long-range accuracy and power. His personal preference is for the single rounded lubricating groove and crimping band of his own design. Next to his own design he likes the Keith, but only for Colt guns in .44 Special caliber. He prefers the 16-inch twist of the Colt barrel for bullets weighing 250 grains and above, while the 20-inch pitch of rifling in the S. & W. revolver does as well with shorter bullets up to 240 grains in weight.

Boser has had unusual success in game shooting with handguns, because he has done so much of it with well-designed equipment, for which his own interest, earnestness, and ability were collectively responsible. He recommends one gun and one load, both highly developed for the purpose, to insure the ultimate familiarity and skill which spells success. He points out that in the .38 Special the high-velocity loads have a lower impact with the standard 158-grain bullet than the regular loads with the same bullet and that the slower 200-grain loads shoot several inches higher than either. At the longer game-killing ranges there are greater differences in drop and trajectory which must be learned by actual experience in the game field.

STOCK SUGGESTION

Should a shooter be so constituted that he has difficulty in seeing through his rear peep sight, he might need greater heel drop. Before whittling his buttstock, he can determine this need by placing it higher on his shoulder until it feels about right and then cut off the amount of heel which projects above his shoulder. Should no friend be available to mark the projection exactly, he can determine it for himself by removing the buttplate and refastening it in a lower position. When found, the wood above the buttplate is cut away upwards to the comb.

TRADE DOPE

Industry Notes. A release from Steve Hannagan carries some interesting dope on the .30-caliber Carbine cartridge developed by Winchester before that firm had developed the Service Carbine for it. It is loaded with a 110-grain bullet which has a copper clad steel jacket and a charge of Western ball powder (see Dope Bag, page 42, July, 1943) that gives it about 2000 f.-s. m.v. The primer is a modern noncorrosive type like those Winchester used in their prewar commercial sporting ammunition. Another Hannagan release, just received, discloses the fact that the Western Cartridge Co., St. Louis plant, has produced more than 3,000,000,000 rounds of Service ammunition since we entered the war, including all types of .50-caliber machine gun ammo.

We have just learned that our friend, Roy C. Swan, Sales Manager for Remington targets, traps, and ammunition has been also appointed assistant to the Director of Sales, B. E. Strader. E. J. Zimmer, Jr., will take over Roy's work on military contracts in the Springfield Ordnance District.

* * *

S. D. Myres was at Camp Perry a few years ago, making many friends. He is still making friends with his creations in leather. It might be said: "If it's made of leather Sam makes it". His latest catalog, just received, shows that Myres is still at it. This 36-page booklet is illustrated with half-tones in sepia and pretty well covers the entire field of carved leather holsters, cases, belts, etc. The holsters of all types are featured in practical quick-draw models. Even the cases of all types are beautifully carved.

* * *

John Unertl has abandoned his old shop on Cemetery Lane for a better spot in the same Pittsburgh (14), Pa. His new plant and offices bear the address: 3551-3555 East Street, N.S. After two years of expansion the old quarters proved inadequate to meet increasing demands for optical products by Government agencies. This means genial John will be well equipped to serve shooters after the war.

* * *

W. H. Nickels of 804 Central Ave., Wilmette, Illinois, says he can supply a limited number of his extractors in any caliber, providing a fired and an unfired case are sent with the order, because so far he has worked them out only for the .30-'06, .25-35, and .50 M.G. A guarantee goes with each one.

* * *

Gunsmith Don W. Tibbits, Gun Shop, Whitefish, Montana, does fine restocking in Myrtle Wood and Circassian walnut. C. C. Milliron, Hagerstown, Maryland, rebuilds Colt and Smith & Wesson revolvers as a specialty, but does repair work and makes revolver stocks.

THE ARMS CHEST

THE ARMS CHEST is an open market trading post where manufacturers, dealers, professional gunsmiths, and our own readers may advertise their goods and services to fellow sportsmen at a modest cost.

Returns are uniformly excellent—scores of advertisers report truly phenomenal results.

The rate is ten cents per word *including name and address*, minimum charge $1.50.

Groups of figures are counted as one word. also usual abbreviations made up of single characters or initials. Hyphenated words are counted as two.

Non-specific phrases such as "highest prices paid" and "top prices paid" are objectionable and cannot be accepted; the terms "fair prices paid" or "state price wanted" may be used. A *specific* price must be stated on all *for sale* ads, except that a phrase such as "details on request" may be used when listing *quantities* of similar merchandise or *real estate*.

Box number or blind ads will not be accepted. Please give your *complete* name and address, so as to insure the prompt delivery of all mail or telegraphic replies. All advertisements *must* be accompanied by cash. Final closing date is the *5th of the preceding* month.

Please print all advertisements *plainly*—we cannot be responsible for errors due to illegible writing. Spell out all descriptive words; abbreviations may lead to serious misunderstandings and impair the effectiveness of your ad.

We reserve the right to edit all copy to conform with our standards, and to decline or discontinue any advertisement which we consider objectionable. All orders accepted are subject to these conditions.

In describing the CONDITION OF GUNS advertised these standard phrases must be used: PERFECT means factory condition. EXCELLENT means new condition, implying negligible amount of use. VERY GOOD means practically new condition, implying little use, resulting in no appreciable bore wear and only minor surface scratches or wear. GOOD means moderate use with some finish worn off, only moderate bore wear with no pits and nothing worse than a little roughness in the bore. FAIR means reasonable hard service, reasonable wear inside, nothing worse than minor pits in the bore, implying the gun is sufficiently accurate for hunting. POOR means marred appearance and pitted or badly worn bore.

ARMS CHEST transactions are based entirely on good faith and mutual satisfaction. Deliberate misrepresentation or disregard for ordinary business ethics will, of course, result in expulsion from N.R.A. Membership and from the columns of the Magazine.

Purchasers who wish to examine, before acceptance, guns or equipment purchased thru these advertisements should request shipment by express, C.O.D. *with examination privileges.*

AMMUNITION SALES

Prices on ammunition, like everything else, are out of line. In sales approved, however, through the main source of supply, WPB, the Office of Price Administration has established prices which were in effect the early part of 1942. In recognition of these regulations, therefore, the following policy is instituted for advertising of certain types of ammunition in the Arms Chest.

No large amounts of .22 Long Rifle ammunition will be advertised FOR SALE or WANTED. Amounts up to 1,000 rounds will be allowed if prices do not exceed $10.00 a thousand. .45 A. C. P. and .30-06 Gov't Arsenal ammunition (ball and M2) —no amounts above 500 rounds, prices not to exceed $6.00 a hundred for the former and $10.00 a hundred for .30-06.

AUCTION TYPE ADS

Advertisers must state a specific price for items accepting in cases where quantities of similar merchandise are listed. The phrase "details on request" may then be used. But efforts to circumvent this policy by advertisers requesting a higher price than that listed in their classified ads, thus encouraging auction bidding, when brought to our attention, will result in refusal of further advertising from such an advertiser and the rejection of membership renewal.

NEW OPA CEILING PRICES

We call attention to a special list of maximum prices on ammunition (page 40 this issue), effective as of October 7, 1943, and supplementing the existing regulations issued by the Office of Price Administration.

FIREARMS & SUPPLIES—GENERAL

FOR SALE

FOR SALE—348 WINCHESTER, LEVER ACTION, Model 71, new, swivels and strap, $95.00. .30-40 Krag, Model 1898, appearance fair, mechanical good, 20 rounds hunting ammunition (6 guns), $29.50 each. .32-30 Winchester, Model #1892, very good, lever action, 50 rounds hunting ammunition, $37.50. .30-30 Winchester, excellent, Marble folding leaf rear sight, Model 94, lever action, 40 rounds hunting ammunition, $63.50. .30-30 Winchester, Model 64, new, 40 rounds hunting ammunition, $81.50. .30-'06 Springfield, Sporter, excellent, Redfield receiver sight, cheek rest stock, 40 rounds hunting ammunition, $80.00. 218 Bee Winchester, new, Model 65, $69.50. .25-35 Sedgley, Model 1898. Springfield, excellent, tapped for scope, strap and swivel, hooded ramp front sight, peep receiver, beautiful Birds-eye Maple full length stock with cheek rest, 60 rounds hunting ammunition, $122.50. .45-70 Winchester, Model 1886, new beautiful stock, 40 rounds hunting ammunition, $100.00. Send check or money order. Frank Efinger, 425 Main St., Bound Brook, N. J.

FOR SALE—N.M. SPRINGFIELD STAR GUAGE, good $55.00. Winchester 92, caliber .38 WCF, 3 boxes HS. cartridges, excellent, $45.00. Colt automatics, .45 caliber, good, $45.00, very good, $50.00, excellent, $60.00. Once fired cases .45 automatic, $7.00 M., .38 S. & W., $5.00 M. C. H. Lawson, 89 Myrtle Avenue, Edgewater, N. J.

WINCHESTER 70, .30-'06, LYMAN 48, EXCELlent, $88.00, same, open sights, $82.00. Smith-Wesson .38 Special Target, humpback, custom grips, excellent, $60.00. Savage .32 automatic, holster, very good, $30.00. Krag, Lyman 48, scope blocks, very good, $35.00. Ammunition with all. Paul Boyce, Branford, Connecticut.

SALE: 52 WINCHESTER H. B. NO. 53493, EXcellent Marksman stock, 3 clips, Army sling, 8X Winchester scope, Rangeking conversion to 14 power, arm sling, trigger shoe, tension equalizer, cleaning rod, left-handed coat and mit, croft, mahogany carrying case with nickel corners and hardware. First money order, $115.00. David Parker, 36 Putman St., Union City, Pa.

WINCHESTER 94 CARBINE, .30-30, LYMAN tang sight, 20 shells, brand new, $50.00. Weaver T7 mount, $2.00. Super Targetspot carrying case, $3.00. Hartzell, 110 W. Rosemar Street, Philadelphia, Pa.

WAFFENFABRIK MAUSER SPORTER, 7MM., checkered forearm, P. G. cheekpiece, Stoeger Model 601, excellent, $95.00. Hensoldt Zielyt 2¾X scope, excellent, $70.00. Joel H. Hayes, Greenbriar Lane, Port Washington, L. I.

L. C. SMITH MONAGRAM GRADE, PERFECT, case ammunition, $425.00. 70 Swift heavy barrel, standard stock, perfect, new Winchester barrel, factory grease, Griffin-Howe base, no sights, 300 factory cartridges, $155.00. Sedgley Springfield .30-'06 speedlock, Griffin & Howe mount, Hensoldt 4X Dialytan scope, ramp front, Lyman 48 rear, excellent, 200 factory cartridges, $245.00. Winchester low wall, 52 standard barrel, scope blocks. Lyman front, 2A rear, excellent in, good out, 1000 cartridges, $80.00. Winchester 52, converted to Sporter, factory sights, scope blocks, speedlock, perfect, 1000 cartridges, $100.00. Enfield, excellent, 300, 1934-1938 ammunition, $60.00. Winchester 70, 300 Magnum bull gun, 140 factory loads, perfect, $135.00. Winchester Hi-Wall, 2R, heavy barrel, scope blocks, no irons, excellent in, good out. 50 handloads, 500 Sisk bullets, 500 Primers, 2 pounds, 2400, $90.00. S. & W. Magnum, 5 inch barrel, engraved, 100 Magnums, 100-.38 Specials, $150.00. Hensoldt binoculars with case 7 x 50, perfect in, excellent out, $155.00. Sam Bloomfield, 1301 Greenwood, Wichita, Kansas.

WINCHESTER STANDARD 70, .257 ROBERTS, 48 WJS rear, scope blocks, excellent to perfect, box 87 grain Remington Kleanbore, 50 cases, 400-100 grain OP bullets, 500 NMNC primers, can powder, complete, $125.00. W. L. Humphrey, Round Hill, Virginia.

REMINGTON 7.62 RUSSIAN SPORTING RIFLE, restocked, excellent, $36.00. Ralph Drake, Osborne, Kansas.

.45 CALIBER SMITH AND WESSON, .45 CALIber Colt, both excellent condition, 5½ inch barrels, $45.00 each with holsters. John D. Hardgrove, 226 Linden Street, Fond du Lac, Wisconsin.

COLT .45 D.A., V.G. STAMPED HOLSTER. cartridges, $45.00. H. & R. .32 nickel, 3" gauge, $8.00. Small nickeled .22, $5.00. H. & A. .38, 5", $5.00. Baby hammerless .22, $5.00. Stevens ranger heavy barrel target rifle, speedlock, 4X scope, 200 cartridges, $35.00. V.G. peep and two magazines. Parker V.H. 16 gauge, box shells, $60.00. Roy Vail, Warwick, N. Y.

WINCHESTER MODEL 2, 16, 28 IN. FULL, excellent, $60.00. Remington Model 14, .35 Rifle, very good, $60.00. Savage .22, S.L. or L.R. Model 25 slide action, very good, $25.00. Paul G. Kopeschke, Shawano, Wisconsin.

PISTOLS, REVOLVERS WITH AMMUNITION. Perfect Matched Pair Officers' Model Target .38-22, honed actions, 600 rounds. Sheep skin cases. $200.00 Pair Mausers, 30 cal. 100 rounds, $100.00. Colt 45 Auto. rebuilt, $45.00. Colt Army .32-20 Special, $38.50. S. & W. straight Line 22 S.S., $37.50. Colt 38 Super Automatic, $75.00. S. & W., 44 Russian, $25.00. Colt Single Action .32-20, $42.50. Colt Bisley .45, $45.00 Luger 9mm. $47.50. Other Lists 10¢. Geo. Brullesauer, 3957A Castleman, St. Louis 10, Mo.

FEDERAL EXPLOSIVES ACT

Under the Federal Explosives Act of 1941 *all* buyers, sellers and possessors of powder and primers (not complete small arms cartridges) must be licensed. Such license is usually obtainable from your County Court Clerk. Purchasers must submit their license, or a certified or photostat copy thereof, to the seller at time of sale.

CATALOG—JUST OBTAINED A COLLECTION of 2000 modern and antique handguns, send coin 25¢ for your copy. Shotgun 8 gauge Holland & Holland custom made English DB hammerless engraved action, cost originally, $2000.00, excellent, $150.00. Shotgun hammer type live pigeon gun by Wm. Ford, custom made in England, 32" fluid steel, modified and full choke, like new, $125.00. Public Sport Shops, R-66, 13 S. 16th St., Phila., Penna.

FOR SALE—.220 SWIFT, M 70 BARREL AND action, beautiful custom stock, cheekpiece and semi-beavertail, stock fitted at Winchester factory, Q.D. swivels and sling, Weaver 440 on Stith mount, all excellent to perfect, Stith base does not quite fill stock where Lyman 48 was mounted, a beautiful job fired less than 400 rounds with gun crank care, with 300 rounds factory ammunition, price, $185.00. Jay Smith, Box 388, Salina, Kansas.

.35 CALIBER WINCHESTER AUTOMATIC, very good in, out, 200 cartridges, $40.00. Krag action, new .25 caliber Martin barrel. .30-40 necked down, sport stock, double set triggers, peep sights, very good condition, 50 cartridges, dies, $80.00. .30-'06 Enfield by Winchester, Lyman Alaskan scope, exceptional dark walnut custom stock, 100 rounds, very good condition, $150.00. Guaranteed satisfactory money back. Ithaca 12, 30 full modified, good, $35.00. Three curly maple, one plain maple half stocked squirrel rifles 34, 40, 40 to 42 inch barrels, all newly rerifled, with molds, 12 to 15 dollars each. Above guns all shipped examination privileges. Arthur Morrieel, Jeffersonville, Ind.

FOR SALE—REMINGTON AUTOMATIC, MODEL 8, .35 caliber, inside new, outside very good, Lyman peep rear sight, 29S scope, 120 Remington Kleanbore cart., $105.00 each. Henry Gosh, McDonald, Michigan.

COLT .32 CALIBER, OFFICER'S MODEL, heavy barrel, King ramp front sight, King rib section micrometer rear, cockeyed hammer, short action, custom grips, $100.00. Colt .38 caliber, same as above, only, $100.00. Colt .45 caliber Auto, Harpe accuratized, King rib section rear sight, $100.00. Colt .22 caliber, Match Target Woodsman, King rib section rear sight, wide trigger, custom stocks, $100.00. The above guns have trigger work by Berdon. Springfield .30-'06, as issued, poor barrel, good training rifle, $25.00. Ideal sizer and lubricator, .38 caliber, $10.00. .45 Colt Auto, checkered front strap, custom and regular stocks, Roper undercut front sight, Roper click adjusted, rear sight, $85.00. 250 Kleanbore .32 S. & W. Long Targetmaster, $10.00. Gordon Doell, Attica, N. Y.

23 D HORNET, PEEP SIGHTS, INSIDE GOOD, outside very good, oil finished stock and sling, set of Ideal tools and 375 loaded cartridges, $55.00. Benjamin 317 Air Rifle, peep sights and 1500 pellets, $11.00. Money orders only. Charles Telford, Canby, Minn.

NEW DEFENDER .38 DOUBLE ACTION HARrington and Richardson revolver, Model 25, box .38 S. & W. cartridges, $34.00. Jim Craton, Life Member, Davenport, Iowa.

MATCH WOODSMAN, 6½" barrel, with extra Gaskell grips, and Henshaw trigger shoe, excellent, $58.00. A. C. Gonda, 712 Elysian Avenue, Morgantown, West Virginia.

ITHACA 16 GAUGE FIELD GRADE 26" IMproved and modified, single trigger, ejectors, excellent, 4 boxes shells, $80.00. F. G. Spencer, 521 Ridgeway, St. Joseph, Michigan.

COLT .38 O.M. TARGET REVOLVER (WITH holster) 6" heavy barrel, King full rib micrometer sights, cockeyed hammer, short action (double action removed), special birdseye maple grips, very good, $105.00. First money order. G. E. Murphy, 40 Willard St., San Francisco, California.

COLT OFFICER'S TARGET MODEL REVOLVER .38 Special, patridge sights, 6" heavy barrel, closed .45 holster, cartridge belt, (holds 12) 175 rounds 158 grain, 99, 200 grain, excellent, has fired less than 200 rounds, $80.00. H. X. Boosel, 1623 E. 55, Chicago, 15, Illinois.

BUHMILLER .257 ROBERTS, VERY GOOD, tight Enfield action, beautiful Bishop stock, 18 Western loads. 200 silvertip bullets and primers, 95 new cases, 300 lead bullets, $75.00. Carl Peterson, 31 North Summit, Akron, Ohio.

FOR SALE—WINCHESTER 12 TRAP GRADE 12 FC, 28" solid rib barrel, beautiful wood, recoil pad, perfect, four boxes 7½ trap loads, $100.00. $10.00 with order, balance COD express examination privilege. T. C. Post, New Castle, Pennsylvania.

KRAG, EXCELLENT 22" BARREL STANDARD Springfield stock remodeled to fit, fair, bluing excellent, work by Sedgley, drilled for Weaver side mount, 21 factory cartridges, 24 reloads, most need neck resizing, 160 empty cases, 300 Loverin cast bullets, new Ideal No. 3 reloading tool, $50.00 FOB. E. H. Peters, 148 Evergreen St., Hillsdale, N. J.

MODEL 12, 12 GAUGE, 30" FULL, MATTED rib, straight grip, with extra 28" cylinder barrel, matted rib, with sheepskin covers, excellent, $125.00. Charles J. Veit, 1013 East Fort Dr., Flint, Michigan.

ROBERTS GOOSE GUN, 10 GAUGE (BELGIUM) double, 36", full, fancy designed, best curly walnut stock, buttplate, genuine horn, condition good, 25 shells included, price, $50.00. Hunter H. Simpson, 1612 Franklin Street, Fredericksburg, Virginia.

.250-3000 WINCHESTER M 70 DE LUXE, LYman 48 receiver sight, 440 Weaver scope, Griffin & Howe low mount, Jostam recoil pad, leather faced, perfect (new), 125 of 87 grain, 125 of 100 grain Bushnell Smith handloads, saddle scabbard, $225.00 for outfit. .22 Winchester M 63, Automatic, Redfield M 70 receiver sight, ramp front sight, perfect (new), $50.00. .220 Swift Winchester standard weight barrel, new never used, $17.00. S. A. Raymond, 837 W. Huntington Drive, Monrovia, Calif.

LIKE NEW .405 REP. WINCHESTER, 3 BOX cartridges, 4 box bullets, empty shells and loading tools, $80.00. .45 Colt Automatic, shells and holster, $60.00. Good 12 gauge Remington double, automatic ejectors, 1 box shells, $55.00. 41 Colt Single Action, box cartridges, holster, $45.00. .32 Smith & Wesson, small chip off grip, 38 cart., $25.00. First money order. Troy Dill, 21 N. 2nd St., Highland Park, Ill.

SVG 12 OVER-UNDER, EXCELLENT, $45.00, box shells included. Marbles Gamegetter, good, .22-410 or .44 XL, box XLs, $30.00. .44 Special, new service target, excellent, $59.00. Silver inlaid Chinese Matchlock, $50.00. English bond brass barrel blunderbuss, spring bayonet, $75.00. Engraved Whitney .44 repeating rifle given by Annie Oakley, $75.00. Forsythe sporting arms, Green's improvement; will trade for rare or fine guns or collection, or buy. Miller Bedford, New London, Ohio.

FOR SALE—45 AUTOMATIC GOVERNMENT Model with new back rest, holster worn, mechanically perfect, only fired 25 times, extra magazine, with US holster, 25 rounds ammunition, $68.50. .32 caliber automatic, Steyr, N. Pieper, very good, $35.00. Mauser military .30 caliber perfect with 100 rounds ammunition, $125.00. American Eagle, squeeze grip 9mm. Luger, 4 inch barrel, new $85.00. .32 caliber Ortgie automatic, good, $27.50. Send check or money order. Frank Efinger, Box 85, Bound Brook, N. J.

WINCHESTER MODEL 21, STANDARD 16 gauge, Skeet 26" barrel number 1 and 2 Winchester boring, automatic ejection, selective single trigger, beavertail forearm, trap grade stock and forearm, a beautiful gun shot 100 times, with 10 boxes assorted shells, perfect, $165.00. Jim Craton, Life Member, Davenport, Iowa.

LYMAN 48WJS, $8.00, 48WH, $6.00, BOTH NEW. Belding-Mull moulds #452236, #454260, $5.00 each. Winchester pump barrels, 12 gauge with Aluminum Comp, 23" cylinder, 16 gauge 28" modified. Several fancy stocks for Winchester pumps, prices on request. Shotgun case, 32" leather, $6.00. Pacific frame, $13.00. 7 mm die, $5.00. Paul Boyce, Branford, Connecticut.

LARGE STOCK OF AMERICAN AND EUROpean antique arms. Send 10¢ coin for new 10th edition catalog, featuring the important Colt collection of Frank A. Belden co-author of Colt history. We buy single pieces or whole collections. Fair prices paid. Kimball Arms Co., Woburn, Mass. tf

SMITH & WESSON TARGET REVOLVER, HEAVY frame, .22 Long Rifle, late model, like new, $75.00. Stephen Van Rensselaer, Mt. Kemble Avenue, Morristown, N. J.

Millions of "Small Arms" Essential to Victory

THE sporting arms industry of America—long skilled in the ways of gun-making—undertook a tremendous task in production of arms for our Government and its Allies.

The record of its achievement, in quality and stupendous quantity, is a vital factor in America's guarantee of victory.

"SAVAGE"... with its thousands of workers is proud to be a part of this industry's important war effort. Reports from all parts of the globe record the effective performance of the Browning Aircraft Machine Guns, and other guns and military rifles produced in our plants.

Savage Arms Corporation
Utica, N.Y.

SAVAGE

Since award to Savage of the Army-Navy "E," new and higher production schedules have been exceeded.

SAVAGE AUTOMATIC SHOTGUNS

will resume their steady rise in popularity which, before the war, culminated in the introduction of the lightweight model for upland hunting.

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MAGNUM .375 BY HOLLAND & HOLLAND, $165.00. 10.75mm. custom Mauser by Schuler, $135.00. 20X Super Targetspot, dot, case, recoil ring, $100.00. Special target barrel 70 Sporter Hornet with 10X scope, $190.00. 2-R Red head tool, $12.00. Cash only. Lain Foster, 516 E. Chestnut St., Bloomington, Ill.

SELL—WINCHESTER SCHEUTZEN .22 L.R., $35.00. Lyman 5A, $32.50. Winchester 5A, $25.00. .32-40, .25-20 SS Hornet-Lovell cases, stamp for details. W. R. Allen, 8011 Orlando Drive, Clayton (5), Mo.

SPRINGFIELD SPORTER CHECKERED, CHEEKpiece, Lyman 48, sporting ramp front, sling, V. G. outside-in, $92.50. Springfield '03 issue, original front, Lyman 48, V.G. inside, $72.50. Springfield C stock, sling, original sights, V.G. outside-in, $78.00. Remington 35, pump, Model 14, V.G. inside, shows use out, peep folding rear, very accurate, ammo., $4.00 extra, $72.00. Remington 30, Model 14, pump, same condition as 35, $67.50. Remington Model 11 Auto, 20 gauge, raised rib, excellent inside-out, $95.00. Remington Sportsman, 16 gauge, excellent, $85.00. Savage 16 gauge Over-Under, Model 430, takedown, V.G., $67.50. Marlin, Model 90 Over-Under, 20 gauge, V.G., $78.50. Savage Model 220, single 16 gauge, as new, $19.50. Remington 12 gauge Auto, good shooting condition, barrel fair, outside much use, stock cracked, $24.50. S. & W. Magnum, original box, beautiful shape, ivory grips, shot 6 times, short barrel, $145.00. Luger 9mm., V. G. inside-out, $47.50. Luger 7.65mm., long barrel, same fair, $34.50. All sold money back guarantee. H. C. Osborn, 1120 Broadway, San Antonio, Texas.

WINCHESTER 94, .38-55, $30.00. WINCHESter 92, .32 WCF, $25.00. Springfield .30-'06, $50.00. Ranger auto-load .22, $16.00. Colt SAA .45, needs hammer, $15.00. Colt 380, $15.00. Remington shotgun double barrel, 16 gauge, $50.00. Stevens SB 12 gauge, $8.00. 20-50 cartridges with each. Old W. Richards double barrel, 12 gauge, $15.00. 50 ACP cartridges, $2.50. 300 .22 L.R.'s, $3.00. ACP shoulder holster, $2.00. Odds & ends—.32RF, .32 S.&W., '06 bullets, brass, etc. Details on request. R. S. Leland, Framingham Centre, Mass.

FOR SALE—.30-30 WINCHESTER, GOOD, Marble folding rear sight, ring on side of breech, 40 rounds hunting ammunition, $46.50. .30-'06 Winchester, excellent, Model 54, 24 inch barrels, Lyman 57W receiver sights, 40 rounds hunting ammunition, $89.50. .32-40 Savage, good, lever action, 26 inch barrel, Model 1899, $42.50. 32 Remington, Model 14, pump, 100 rounds hunting ammunition, $89.50. 35 Remington, Model 14, pump, 100 rounds hunting ammunition, $89.50. 35 Remington, Model 8, very good, automatic, folding rear peep sight, 40 rounds hunting ammunition, $98.50. 22 Winchester, Model 61, new, pump gun, shot only 150 rounds ammunition, $39.50. 20 gauge Ithaca, automatic and burglar gun, with russet leather holster, perfect condition, $60.00. .32-20 Winchester, Model 65 new, 50 rounds hunting ammunition, $65.00. .22 caliber Hi-power Model 1899, Savage, good, lever, $37.50. Send check or money order. Frank Efinger, 430 Main Street, Bound Brook, N. J.

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.38-44 OUTDOORSMAN, EXCELLENT, FIRED twice, slight holster wear, $65.00. K-22 excellent to perfect, $60.00. 12 gauge Winchester Model 12 hammerless, 30 inch barrel, modified, reblued, $35.00. Underwood Standard Model S-11, $60.00. Edmund Hockaday, State Patrol, Jefferson City, Missouri.

FOR SALE—B. & L. DRAWTUBE SPOTTING scope, homemade stand, $30.00. .22-15-16 Stevens 44½ very good, cartridges, $30.00. 100 new primed Swift cases, $7.00. Bean's snowshoes 9 x 56, harness, never used, $22.50. Ideal 2R full length resizing die, $3.60. "Modern Gunsmith" supplement, $1.50. 100 .35 Winchester S.L. Peters Rustless cartridges, $6.50. F. Edwin Korn, Durham, Conn.

SELL—IVER JOHNSON .22 SEALED 8 TARGET revolver, practically perfect, $25.00. WANT—for cash .22 gas checks, also .22 bullets. Charles T. Wright, Shelton, Washington.

.22 L.R. WESTLEY RICHARDS MARTINI, 26" barrel, very good out, fair in, 200 cartridges, $38.00. James Fitzgerald, 3609 N. Murray, Milwaukee, Wis.

$6.95. SPRINGFIELD CARBINE RIFLE, CALIber .45-70, slightly used, limited supply. Weil's Curiosity Shop, 12 Strawberry St., Philadelphia, Pa.

NEW WINCHESTER MODEL 65, 30-20, $51.50. Savage Model 23C, perfect, $35.00. Jim Craton, Life Member, Davenport, Iowa.

SALE—B.S.A. .22 good and 500 cartridges, $52.00. Miles Noll, Lewisburg, Pa.

SPANISH AUTO .25 CALIBER, $10.00. SPRINGfield rifles, .45-70, each $7.00. Colt Revolver, .38 caliber, $20.00. Harold M. Clark, 122 Benner St., Highland Park, N. J.

FOR SALE—.38 SPECIAL COLT SHOOTING Master, 6 inch barrel, Pachmyr grip adapters, Roper sights, lined Heiser holster, excellent, $65.00. Dr. Earl H. Newcomer, Chapel Hill, N. C.

MODEL 31T REMINGTON 28" TRAP GRADE, raised rib, with 4 boxes 12 gauge Super X, 6 Ch. shells, with gun, only $100.00, perfect. Winchester Model 71 Deluxe, .348 caliber rifle (new) never fired, with 80 rounds 200-250 grain bullets, $110.00 6 boxes .348 caliber bullets at $6.00 per box, 20 with gun only. Remington Model 141 Gamemaster with sling, caliber .32 with 80 rounds 170 grain fresh ammunition, perfect, $95.00. 6 boxes .32 caliber bullets 170 grain at $4.00 box with gun only. Remington Model 141 Gamemaster .35 caliber with sling, never fired, with 40 rounds fresh ammunition. $110.00. 8 boxes, 160 rounds, 200 grain handload at $4.00 per box with gun only. 6 boxes 120 rounds, caliber .30-30-170 grain soft points at $6.00 per box. .410 Over & Under Stevens Model 240, with 100 XL shells 8 Ch. (perfect) fired less than 10 times. $30.00. Only certified checks or money orders accepted for above articles. Murray L. Hopkins, 658 West Bel Air Ave., Aberdeen, Maryland, Member.

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FOR SALE—SPRINGFIELD SPORTER, STARgauged, with Noske scope. .30-'06, $100.00. Two .32-20 Bisley Single Actions, $40.00, and $45.00 excellent and perfect; Shooting Master .38, perfect, $70.00. Frontier .45 very good, $40.00. Police positive with holster and belt, $45.00, shells for all. Cine 8 movie with projector, new, $85.00. Several Eastman Kodaks, Evinrude outboard 5 h.p. with pull starter, $145.00. B. W. Wilder, 4511 Browndale Ave., Minneapolis (10), Minn.

SELL—2 CALIBER 30 GERMAN LUGERS, 4", 8", 10" barrels, good to excellent, 4 Colt revolvers, caliber .22 and .38. 1-44 Smith & Wesson Special, excellent, 24 primed 12 gauge, brass shells, never fired, 500 primers caliber .22, ranger target rifle, heavy barrel, no rear sight, very good, $13.00. American Rifleman 1929 to 1943, $15.00 or what. Caliber .22 Remington Special M 12 CS, good, $20.00. Some ammunition with all. 9mm Hanel rifle, good out, excellent in. $40.00. Details and prices on request. Andrew Sundin, 517 Woodward Ave., Kingsford, Mich.

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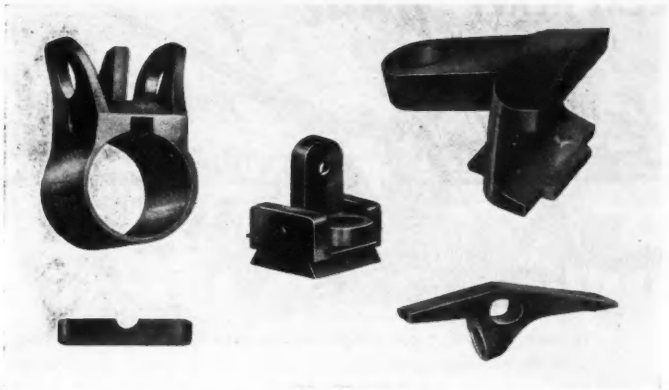
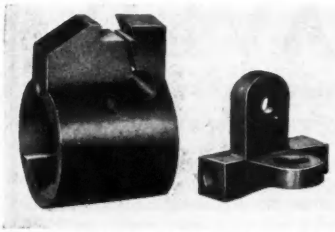


Top left, Front Sight. Right, Recoil Plate. Center, Rear Sight. Lower Left, Key. Right, Sear.

U. S. Carbine Caliber .30, M1



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HIGH STANDARD B 4½", PERFECT, 650 HISkor Shorts, $50.00. First Model S. & W. Revolver, .32 RF, rare, with holster, $30.00. Winchester 54'06 speedlock, perfect, low bolt (Winchester) 48W, King red hooded reflector, scope blocks, Redfield safety, custom stock, cheekpiece, pad. Whelen sling, 50 rounds sporting ammunition, $100.00. Harold Straitwell, R#2, Lowellville, Ohio.

BARREL ONLY 16 GAUGE BROWNING AUTOmatic (Belgium) 26" modified, excellent, $27.50, money order. H. Moneymaker, 2744 No. 45th Ave., Omaha, Nebraska.

FOR SALE—PERFECT WINCHESTER M 67, with brand new M 344 Weaver scope and 400 Shorts, $18.00. Dick Curriden, 147 Medway St., Providence, R. I.

WINCHESTER 54, .30-'06, 48W., EXCELLENT, 80 cartridges, $75.00. Remington Automatic, 12 gauge, Weaver choke, 125 shells, very good, $65.00. Remington 17 pump, 20 gauge, full, 100 shells, good, $42.50. .44 S. & W. Military Target, near perfect, holster and 220 cartridges, $65.00. Walter Price, 922 Rogers, Okmulgee, Okla.

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SALE—.22 CALIBER AMMUNITION WITH PISTOLS and rifles. Woodsman, 6½ inch barrel, matched Long Rifles, absolutely perfect, $95.00. Springfield Automatic, special Garand type, full stocked, sling, Long Rifles, absolutely perfect, $100.00. Remington 241 auto-loader, special grade, Weaver scope, matched Long Rifles, $120.00. Colt .45, special job, super accurate, good out, perfect in, 500 shells, $115.00. Colt .38 Super, absolutely perfect, extra barrel and magazine, 1000 Hi-Speed Kleanbores, $155.00. Luger, 3½ inch, perfect, 200 Kleanbores, $90.00. Remington 81A auto-loader, .35, 400 Kleanbores, absolutely perfect, $150.00. Mannlicher 9mm., Lyman peep, sling, full stocked, 800 Kleanbores, $300.00. S. & W., .38 Special, nickeled, good, 400 Kleanbores, $95.00. All with sheepskin cases. Wollensak 45X-70X Acromatic telescope, tripod adjustable from 2 to 7 feet, sun lens, leather case, new condition, $115.00. F. R. Guy, Box 97, Montgomery, Ala.

WINCHESTER 12-12, FULL, INSIDE PERFECT, outside bluing wear, $45.00. .22 H. & R. solid frame 6 in., barrel excellent, outside V.G., $12.00. .32 S. & W., 4½ inch, inside V.G., out perfect, nickeled, $10.00. P. I. Spence new .40 barrel, 55 x 1¼, short wind shake cracks, full curley maple stock, molds, $56.00. As issued Krag, inside excellent, out V.G., $25.00. C. W. Ackerman, Jasper, Ind.

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2—.32 COLTS, AUTO, REBLUED, GOOD, $35.00 each. .45 Colt, Auto, Army, good to excellent, $45.00. O. Anderson, 2745 N. Magnolia Ave., Chicago.

FOR SALE—.30-'06 HANDLOADED NEW Frankford Arsenal cases never fired, velocity 2700. No. 4064 powder as follows: 225 Winchester 180 grain expanding bullet, 100 Winchester 180 grain soft pointed lubaloy bullet 15¢ each, 175 Winchester 172 grain metal patch 10¢ each, 100 Frankford Arsenal fired cases reloaded 172 grain Winchester metal patch 9¢ each, 120 Krag metal patch bullets only 3¢ each, 4 boxes Commercial .30-'06 game cartridges, $3.00 box, 116 Commercial .257 Roberts 15¢ each. 140—'17-'18 .30-'06 issue ammunition 4¢ each. 1 Winchester 12 gauge pump trap grade gun, $70.00. 1 Remington 12 gauge pump, Monto Carlo stock gun, $100.00. Will ship any items on receipt of money order. C. G. Harrel, 208 3rd Ave., S. E., Minneapolis, Minn.

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M30S REMINGTON RIFLE, BARREL BY Jaeger, .300 caliber, Savage cartridge, Lyman Alaskan scope and No. 48 rear sight, remodeled stock with cheekpiece, cartridge cases and some tools, excellent, outfit, $175.00. Winchester Hornet M54, B. & M. 5X scope, 500 cartridges, some empty cases and tools, excellent, outfit, $175.00. National Graflex camera series 1, F 3.5 lens, 3 filters, detachable view finder, 2 fresh films, outfit, $90.00. Full particulars on request. Joseph B. Wagner, 17 S. Allegheny St., Bellefonte, Pa.

M70 .300 MAGNUM, 330 WEAVER, STITH mount sling, sheepskin case, 200 factory loads, perfect, $225.00. Krag Sporter, Pacific sights, sling, case, 40 factory loads, $37.50. Lefever 12 gauge F. & M., V.G., 50 shells, $45.00. Mossberg .22 shotgun, rifle adapter, 300 ammo., excellent, $15.00. Vic Breneman, Hershey, Pa.

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HI-STANDARD B, 4½, HOLSTER, 500 L.R., excellent, $45.00. Krag Sporter, Redfield rear, good, $32.50. Eastman 620 Senior, F: 4.5 Supermatic, extras, perfect, $50.00. Schutz 6 x 30 binoculars, perfect, $75.00. R. E. Willard, 1736 Summerdale Ave., Chicago.

SMITH & WESSON MILITARY & POLICE TARget, .38 Special, blued, 6 inch, excellent to perfect, $52.00. Fox Sterlingworth, 12-28, full-modified, excellent plus, $55.00. Floyd Halfin, Dunkard, Pa.

COLT .45 COMMERCIAL AUTOMATIC, 40 CARtridges, good, $45.00. .32-20 Winchester, reloading tool and mould, 35 assorted cartridges, $6.00. 900 U.M.C. No. 9 copper primers, .210", $5.00. F. W. Phillips, 2018 Birch St., Eau Claire, Wis.

SEDGLEY WINCHESTER SS HORNET, NO IRON sights, Lyman blocks, excellent in, fair out, $25.00. 438 Lyman, very good, $20.00. Winchester 57, very good in, fair out, $25.00. Smith & Wesson .45, 1917, good, $30.00. Colt .45 Auto, Government model, very good, $50.00. F. A. Johnson, Fairview, Ill.

FOR SALE—SPRINGFIELD AUTOMATIC SHOTgun, 12 gauge, 30 inch modified, excellent condition, 80 Hi-Velocity shells, 25 buckshot shells, $75.00. 94 Winchester carbine .32 Special, inside perfect, outside good, 50 S.P. cartridges, $45.00. Winchester 1901 Lever action, 10 gauge, very good, recoil pad, $25.00. W. A. Spateolts, 373 Madison Ave., Albany, N. Y.

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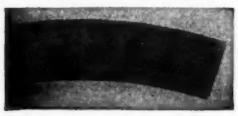

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FOR SALE—.38 OFFICERS' MODEL TARGET, heavy barrel. Excellent, $75.00. First money order. J. W. McLaughlin, 1115 W. Broadway, Whittier, California.

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B. & L. SPOTTING SCOPE, PERFECT, STAND, 19.5X, $75.00. 45 automatic new barrel, perfect, $48.00. Winchester 94, .32-40, 50 ammunition, very good, $38.00. 32 H. & R. hammerless, perfect, $18.00. .450 Webley, perfect, 280 cartridges, $50.00. 8 X 30 Zeiss Deltrintem, new, $130.00. 8 X 40 Colmont binoculars, perfect, $85.00. R. L. Nelson, 316 Third Avenue, Linden, New Jersey.

SCOPE, ZEISS ZIELKLEIN, 2¼ PERFECT, $68.00. Winchester 71, $95.00. Winchester 94, .30-30, $55.00 both factory new, with box ammunition. 2, .45 Colt clips, $2.00, each. Hi-Standard H. E., excellent, 2 boxes ammunition, $75.00. Browning auto 12 gauge, excellent in, good out, 2 boxes shells, $58.00. Remington slide 12 gauge, 30 in. Poly, excellent, 2 boxes, $75.00. Ammunition .30-'06, $3.00. 303 British, $3.00. 30 Remington $2.50. 7mm. $3.50. 25-20, $2.75. 9 shells, 7.62 Russia $1.25. Want—Magnum shot shells, ammunition all hunting loads 1942. T. Gies, Hastings, Michigan.

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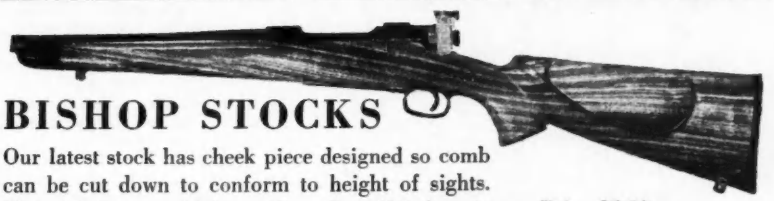

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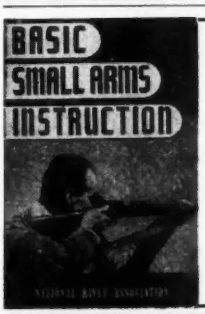

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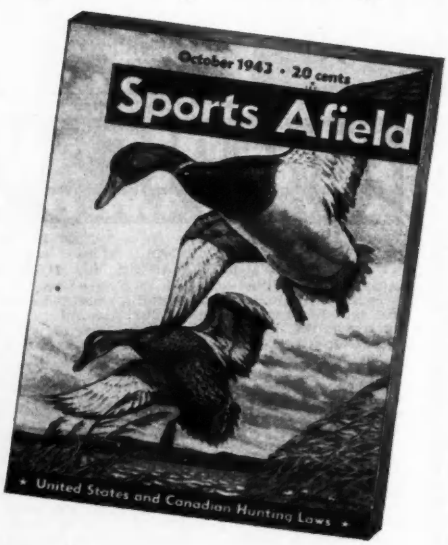

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PERFECT COMMERCIAL .45 AUTOMATIC, custom S. & W. type blue, holster, $75.00. 7.63 Mauser pistol, good—excellent, 128 rounds, $62.50. 7.65 Luger, good—excellent, $47.50. Want—perfect only: Colt Service Ace; 7.65 Eagle or Stoeger Luger, ammunition; Springfield or Enfield Sporter. Lt. E. C. Williams, 1321 Medical Arts, Houston, Texas.

COLT .38, 6", VERY GOOD TO EXCELLENT, $52.00. Winchester 75 T, Very good to excellent, $35.00. Trade—New oil burner to heat 5 rooms for high grade double 16. Paul Butler, East Main Street, Roaring Spring, Pa.

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REMINGTON RUSSIAN 7.62 FAIR, 24 SLING, recoil pad, 250 metal case, 37 sporting, $25.00. F:3.5 Mercury very good, case, flash attachment, bulbs, $30.00. Want—Detective Special, 22 pistol, .44 Spec. A/C John Austin, U. S. N. R., U. S. N. A. S., Lambert Field, St. Louis, Mo.

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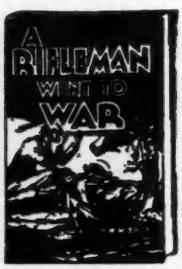

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416 STEVENS EXCELLENT FOR .32-20 COLT Official Police or Single Action. Peter Evasius, Box 294, Three Rivers, Mass.

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WANTED—ACCURATE 8MM. RIFLE. THIS rifle is for experimental work and must fit the requirements of not over 4½" groups (10 shot) at 200 yards with factory load 236 grain bullet. Gun must be excellent or better and fitted with either a mounted scope or scope blocks. Cost is no object, any weight, any type that suits the specifications given above. Philip G. Rust, Granogue, Delaware.

WANTED—WINCHESTER LEE, 6MM. SPORTing rifle, Remington-Lee sporting rifle, 6mm. or .30-40, 24 to 28 inch barrel, guns excellent to perfect, price right. Norman A. Ghen, 1651 Washington St., Denver (5), Colorado.

WANTED—.22 S. & W. KIT GUN, BANKERS Special, short Woodsman, very good to perfect, examination privilege. Lt. Col. T. Fisher, 4501 Maryland, St. Louis, Mo.

WALTHER TARGET PISTOL OR MODEL PP or PPK, also S. & W. .32 Automatic. Arthur Leidesdorf, Elberon, New Jersey.

WANTED—M. T. WOODSMAN. WILL PAY $75.00 for excellent one. R. M. Richmond, AOM1c, Fairwing 2, Hedron, Fleet Post Office, San Francisco, Calif.

WANTED—1903 WINCHESTER .22 AUTOMATIC, also 63 Model, also 241 Remington and 330 or 440 scope. Clarence A. Marsh, Orlando, Fla.

WANTED—COLT FRONTIER SINGLE ACTION, fair to good with ammunition, also 400 new .45-70 empty primed cases. SELL—.45 Colt Auto reblued, good but grips worn, with 40 cartridges, $42.00 or trade for binoculars. R. W. Meininger, Glenside, Pa.

WANTED — WINCHESTER PRESENTATION Rifles, prefer engraved models with premium stocks and excellent condition only. M. C. Clark, 169 No. La Peer Drive, Beverly Hills, Calif.

WANTED—SEDGLEY SPRINGFIELD SPORTER, .22 Hornet or .30-'06 caliber or Remington .30, .25 or .30-'06 caliber. Everett Saggus, Elberton, Georgia.

WANTED—LEFT-HAND MAUSER ACTION (genuine) for caliber .30-'06. D. Margarall, 1008 25th St., Watervliet, N. Y.

WANTED—S. & W., K-22, EXCELLENT CONDITION, reasonable. Also Remington 1861 single shot .22 caliber, vest pocket pistol, good condition. H. W. Passinger, 1 Custer St., Lemont, Ill.

WANTED—SPRINGFIELD SPORTER OR NAtional Match as issued, excellent to perfect, percussion rifle, Colt percussion revolver. SELL—Colt Camp Perry, 10" barrel. $42.50, Savage .219 Hornet, Weaver 329 T mount, $22.50. All about excellent or will trade for guns wanted. A. J. Bennett, 1210 Central Ave., Louisville (8), Ky.

WANTED—D. C. M. SPORTERS, .22 AND .30 caliber, actions unaltered, perfect or excellent. TRADE—case Remington Nitro 4's for good binoculars. W. A. Haughey, Burlington, Colo.

WANTED—ARMS OF ALL DESCRIPTIONS, antique and modern, will pay fair prices. Trembly Arms, 106 Andover St., Lawrence, Mass.

WANTED—LYMAN ALASKAN TELESCOPE; also 270 Winchester and .22 Hornet ammo. Will trade .30-30 ammo. for the above cartridges. William E. Smith, 2015-15th St. N. W., Washington, D. C.

WANTED—.22 REVOLVER AND .22 AUTOmatic Woodsman or Hi-Standard. Capt. F. S. Henika, Camp Headquarters, Camp Wolters, Texas.

WANTED 300 SAVAGE CAL. RIFLES OR AMmunition; 8 mm Mauser and .38 S. & W. cartridges; automatic pistol cartridges in following calibers: .25, .32, .380, 9 mm, .30 Luger. Spot cash or trade for any other size ammunition or guns. Ship express prepaid or write Klein's, 502 E. South Halsted, Chicago. Free Fall "Bargain Catalog," send 25¢ (refunded with first order). tf

WANTED—SEVERAL FAIR TO GOOD HIGH powered rifles in shooting condition. Must have but few pits and tight actions. Outside finish immaterial. Joseph Mishko, 153 Howard Avenue, Ansonia, Conn.

WINCHESTER 9 MILLIMETER SINGLE SHOT gun. Jim Craton, Life Member, Davenport, Iowa.

WANTED—WINCHESTER MODEL 12-12 GAUGE. Ventilated skeet, excellent. Rifle and target scopes, .22 caliber rifles, 40 and 50 grain W.M. B.S. bullets, guns and ammunition of any kind. Cash or trade. Herman Treptow, Milltown, N. J.

WANTED—.375 H. & H. MAGNUM, STATE make, condition in and out, type of sights and price. E. Bielefeld, New Knoxville, Ohio.

WANTED FOR CASH SHOTGUNS, RIFLES, PISTols and revolvers can use all makes and types, describe guns fully in first letter, state price, all mail answered. Big Ben Mercantile and Loan Co., 179 Third St., San Francisco, California. tf

WANTED—8s WOTKYNS MORSE BULLETS, FOR case or swap for—what do you need; also any weight caliber .22 jacketed Sisk bullets. C. H. Lawson, 89 Myrtle Avenue, Edgewater, N. J.

WANTED—UDO ANSCHUTZ MODEL 210 FREE pistol. Pay cash or trade Colt .45 automatic, or primers and powder. J. E. Gebby, 46 S. Willowgrove Avenue, Dayton, Ohio.

WANTED—FAIR PRICES PAID FOR TARGET pistols, revolver, rifles and antique guns of all kinds. Ship for estimate. Public Sport Shops, Dept. R-66, 13 S. 16th St., Phila., Penna.

WANTED—.45 AUTO COLT FRAMES OR COMplete guns in poor condition; also primers for .30-'06. E. S. Burrell, 717 Wyndmoor Avenue, Phila. 18, Pa.

22 BANKERS SPECIAL, MATCH WOODSMAN excellent, 45 Auto, 38 Positive, fair or poor. Gowen, 322 Plant, Tampa, Fla.

WANTED—WINCHESTER HI-SIDE SOLID frame and Stevens 44½ center-fire actions or complete rifles. New or fired once empty cases in .219 Zipper and .220 Swift. Lyman, Unertl and Fecker scopes. Leslie Lindahl, Central City, Nebraska.

WANTED—.30-'06 SPRINGFIELD OR ENFIELD as issued, also Bayonets. Robert Abels, 860 Lexington Avenue, New York 21.

CUSTOM-BUILT .257 WITH OR WITHOUT scope. Lloyd Raab, Vashon, Washington. 12-43

WANTED—SHORT MAUSER ACTION OR SAUER '98 Mauser action, both with single trigger, in very good, or better condition. A. Eastman, 2119 Sedgwick, Chicago, Ill.

WANTED—COLT .38 SUPER MATCH AUTOmatic, excellent to perfect, with ammunition. Also want Winchester 53 or 65 in .25-20. George U. Bland, 1162 Ferguson Ave., Newport News, Va.

WANT—.270 M 70 WINCHESTER STANDARD barrel, also .270 ammunition. Wm. J. Breed, 4 Mt. Vernon St., Lynn, Mass.

WANTED—FOR NAVAL OFFICER ACTIVE duty .38 caliber Colt Automatic Pistol, also ammunition. R. E. Carrick, 420 Madison Avenue, New York, (17) N. Y.

WANTED—99G. OR E. G. SAVAGE .300, MUST be perfect or excellent. George W. Miller, Box 701, Hinton, W. Va.

WANTED—ONE VERY GOOD .257 ROBERTS, preferably with good hunting scope. Must be accurate, also new or used cases for same. Small lots .25 or .30 caliber hunting bullets. Alex Racey, Malheur, Oregon.

WANTED—CARL WALTHER .380 OR .32 AUTO., must be perfect, also ammunition. Desire examination privilege. Lt. (jg) Milton Thomson, Air Transport Squadron Five, N.O.B., Kodiak, Alaska.

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WANTED—WINCHESTER M70 SWIFT, VERY good or better, ammunition if available. Billy E. Brown, 421 West Orange St., Mexico, Missouri.

WANTED—REVOLVERS, FAIR TO POOR, .32-20, .38 Special, .45, .22 or .38 or .45 frame, large pistol and rifle primers, .30 caliber gas checks. Jack Quigley, 6881 Mohawk St., San Diego, (5) Calif.

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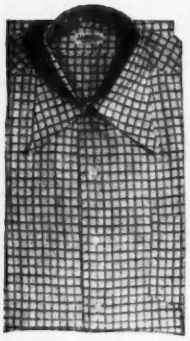

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.22 HORNET CARTRIDGES AND FOLLOWING copies of Arms & Man magazine: 1919—Feb. 1, Dec. 8, Dec. 22, Dec. 29; 1918—Jan. 1 to and including June 15; 1917 and prior years. Arthur Leidesdorf, Elberon, New Jersey.

WANTED—FOX STERLINGWORTH, 16 GAUGE, 26 inch improved cylinder and modified, good to excellent. Will pay $40.00 to $50.00 according. Take two boxes cartridges reasonable. Gomer Benjamin Baldwin, Mount Millsite, Nye, Montana.

WANTED—NEW 1917 ENFIELD AS ISSUED. Also British Long Lee-Metford caliber .303 as issued, good or better condition. C. Trzcinski, 2349 Geimer Ave., Detroit 12, Mich.

WANTED—K-22 MASTERPIECE. PVT. JOE Klemensich, Bty. 1, 501st C. A. (AA), Richmond, Calif.

I WILL PAY $11.00 FOR PERFECT .45-70 Springfield Rifle, as issued. FOR SALE—.41 Swiss military rifle, fair, rod missing, $8.00. L. T. Crenshaw, Route 2, Greer, S. C.

WANTED—EXCELLENT OR NEW MODEL 64 Winchester .219 Zipper, ammunition. Howard F. Cornwell, Forsyth, Mont.

WANT—S. & W. .38 M. P., any barrel length and .25 Colt Auto, perfect or excellent, .25 Colt ammunition. Les St. Vrain, Box 345, Anchorage, Alaska.

WANTED—MODEL 70, .300 MAGNUM IN TARget weight or bull gun barrel. Must be brand new, factory condition, never fired. Name your price. P. G. Rust, Granogue, Delaware.

WANTED—PERFECT WINCHESTER MODEL 70, .270 in Standard or Super grade with 24 inch barrel. WANT—200 factory loaded 100 grain .270 caliber cartridges; also want perfect Smith & Wesson double action .357 Magnum with 6 inch barrel and several boxes of 158 grain Lubaloy coated cartridges. Please answer via airmail. Charles G. Ehrig, P. O. Box 87, Anchorage, Alaska.

WANTED—TWO GOOD REASONABLE COLT Woodsman for cash. Describe fully. Floyd A. Helman, 111 West Seventh St., Los Angeles, California.

WANTED—BROWNING OVER AND UNDER, ventilated rib, improved and modified. Harry R. Sapp, Macomb, Ill.

WANTED—MILITARY RIFLES FROM BALKAN, Scandinavian and South American countries; also other Foreign ordnance items. D. L. Smith, 17301 Wisconsin, Detroit, Michigan.

WANTED—COLT'S DETECTIVE SPECIAL, TWO Colt's Banker's special, two .32 automatic shells, state price. Carl F. Krausse, Hobart, Indiana.

WANTED—WEAVER 330 SCOPE; MOD. 75 WINchester Sporter, excellent or better, describe. Roy Schulpius, 750 W. Bender Road, Milwaukee, Wisconsin.

NEW TO PERFECT MOSSBERG "BROWNIE" pistol, same Sedgley baby Hammerless revolver, loading device for Luger Drum Magazine. Ellison Whelen, Villanova, Pennsylvania.

WANTED—FARQUERSON RIFLE OR ACTION. Tell or Luna free pistol, poor frontier Colt. G. J. Dye, 3388 Whitney Avenue, Hapeville, Georgia.

WANTED—WINCHESTER MODEL 70, 300 MAGnum Bull gun, 6 X 30 B. & L. binoculars—10X Lyman Targetspot. R. O. Willman, Mount Wolf, Pennsylvania.

WANTED—SCOPE SIGHT 30X OR BETTER, Winchester 75T, Savage 1933, Remington 513T, Volt-ohmmeter. Trade—new 44 Special pacific tool. B. & M. bullet sizer, tin and bullet metal. J. W. Landon, Box 6425, Pittsburgh, Pennsylvania.

WANTED—IDEAL TRUE LINE RELOADING tool, any caliber. Target scope 12X or more, accurate muzzle loading squirrel rifle, state condition of items, prices must be reasonable. Lawrence Ramsey, Lebanon, New Jersey.

WANTED—REDFIELD 70 OR LYMAN 48 FOR Mauser action; also 8mm. cartridges. Andrew Kersch, 1516 Beach Avenue, N. Y. C.

RIFLE WANTED, .22 HORNET OR .218 BEE, plus ammunition. Very good or better. Louis Dalenko, 1258 W. Troy, Ferndale, Michigan.

WANTED—MODEL 52 H. B. TARGET RIFLE for pre-induction training; Officer's Model Colts .22 and .38. Will consider accessories. Write, stating price, condition N. R. A. standards. Louis Slentz, 1636 West 11th, Muncie, Indiana.

.45 REMINGTON AUTOMATIC PISTOL, MODEL 51 and Lilliput pistol; also Colt Service Model Ace. Arthur Leidesdorf, Elberon, New Jersey.

WANTED—WINCHESTER 57, .22 LONG RIFLE in excellent to perfect. M. G. Gilbert, 28 E. Quartz Street, Butte, Montana.

WANTED—MUZZLE LOADING MATCH RIFLES, condition immaterial; also locks and other parts for same. Long Malcolm, Sidle or Mogg scopes. Small screw cutting bench lathe. Walter Grote, 431 N. McKinley, Canton, Ohio.

TARGET SCOPE WITH MOUNTS, 15X, WINchester 52 heavy barrel target rifle, complete with sights, full description. P. H. Dunn, 82 Westmont Avenue, Elmira, N. Y.

WANT—23D HORNET, EXCELLENT OR BETTER, all offers answered. Ralph Nobles, P.O. Box 1663, Santa Fe, New Mexico.

WANTED—COLT WOODSMAN, 6½ BARREL, O. M. 22, S. & W. Masterpiece, .22 L. R. cartridges. E. G. Brust, 518 N. 11th Avenue, Melrose Park, Illinois.

WANTED—WINCHESTER MODEL 75, TARGET rifle, new or perfect. P. Boberg, c/o 1120 Hibernia Bank Bldg., New Orleans, Louisiana.

WANTED—IN EXCELLENT CONDITION .45 automatic revolver U. S. Army 1917 Model. Roger W. Clawson, 6138 Baynton St., Germantown 44, Philadelphia.

WANTED—SPRINGFIELD NATIONAL MATCH, National Match Special, NRA Sporter or Style "T" heavy barrel; also ammunition .30-'06 Govt. issue. Full description and price. Louis D. Ringuette, Bishop, California.

WANTED—REMINGTON MODEL 720, WINchester Model 70 National Match. 22 Horse Johnson and 33 Horse Evinrude Motors. J. G. Rich, 15 E. Washington Street, Bradford, Penna.

WANTED—MAUSER 98, SPRINGFIELD, ENfield actions and rifles. Pfc. Cedric Maltpress, Hq. & Hq. Sq. SFFW, Box 3175, San Francisco, California.

WANTED—COLT .22-.45 CONVERSION UNIT for use in training. Lt. Wendell D. Kalen, 25th T. C. Sqdn., Bergstrom Field, Austin, Texas.

WINCHESTER MODEL 12, 12 GAUGE, TRAP or Pigeon Grade, Ventilated Rib. Must be perfect. John R. Olmsted, 5702 Admiral Way, Seattle, Washington.

WANTED—COLT .22 ACE. GIVE PRICE AND condition. Dan E. Clark, Jr., 524 N. San Gabriel Blvd., San Gabriel, Calif.

WANTED—PACIFIC SCALE AND WEIGHTS, two boxes 410 ga. 3 inch shells; Mossberg Spot Shot and stand. Dr. F. W. Danby, 1103-W. Lincoln Ave., Milwaukee, Wis.

WANTED—TOOL FOR 45 COLT FRONTIER and empty cases, large and small pistol primers, good or better .38 Special, reasonable. What have you? A. E. Cannon, member, 211 Bluff Walk, Melbourne, Florida.

WANTED—COLT OFFICER'S MODEL .22, FACtory condition. Sell—100 Super .38's, $6.50. Lester Tupper, 615 E. Gorham St., Madison, Wis.

WANT—EXCELLENT 16 GAUGE, FIELD GRADE double and ammunition. Ithaca or Fox preferred. Reginald Krieger, 18902 Almond Road, Hayward, Calif.

WANTED—MAGAZINE CLIP FOR .22 CALIBER Springfield rifle (M1922MII) P. G. Kreider, Route 6, Springfield, Illinois.

WANTED—SHARPS BUFFALO OR FARROW Rifle or Winchester High Side, excellent condition. Av.-Cad. R. E. Schultheiss, C.A.A.-W.T.S., Miami University, Oxford, Ohio.

WANTED—SHARPS BORCHARDT ACTION OR rifle with D. S. triggers. A. D. Paull, Wheeling Stamping Co., Wheeling, W. Va. 11-43

WANTED — MODEL 70 WINCHESTER IN either .270, .220 or .30-'06 caliber in any grade, with or without scope. Must be in perfect or excellent condition. Also ammunition. R. E. Weatherby, 7672 California Ave., Huntington Park, Calif.

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GOV'T ISSUE .30-'06 F. P., U. S. CAL., 30 (KRAG) 45 automatic at W. P. B. prices and quantity. A. C. Newson, Route No. 1, Huntersville, N. C.

WANTED—AMMUNITION, 12, 16, 20, 410, Shotshells 22's, .22 Special, .25 Auto, .32 Auto, .38 Auto, 9mm. Luger, .30-30, .32-20, .32 S. & W., .38 S. & W., .38 Special, .45 Colt, state price wanted. ammo. wanted for private hunters. Member, Rameses D. Carrell Sr., 1623 Spruce St., Texarkana, Texas.

CARTRIDGES FOR COLLECTORS, SINGLE specimen, some boxed lots. List. Stamp. Ed Howe, Coopers Mills, Maine.

SELL OR TRADE—WESTERN SUPER X, .38 Special Metal Piercing, $2.00 box. .44 S. & W. Special, $2.25 box. Western .22 Remington automatic, 25 short Stevens or .22 Long Rifle shot cartridges, 60¢ box. Jim Craton, Davenport, Iowa.

WANT—.22 SHORTS, .22 L.R., .32 S. & W. Short, .32 S. & W. Long, .32-20 S. & W., .38 S. & W., .38 Special full load, .380 automatic cartridges, .45 caliber cartridges (Colt), 1000 large pistol primers, 12, 16 and 20 gauge loaded shells, empty primed new shotgun shells and primers, .45 caliber revolvers and automatic pistols. W. M. Perry, Columbia, S. C., Member.

LOOK WHAT $15.00 WILL BUY—100 ROUNDS of any of the following ammunition: 348's; 270; 30-40 Krag; 30-30; 32 Win. Spec.; 30 Rem.; 32 Rem. Write for other Calibers and prices. Send money order with order—all goods shipped packed in wooden cases express. Thomas Gilboy, 820 Oak St., Scranton, Pa.

WANTED—WANTED FOR CASH, AMMUNITION, any quantity, all calibers. Write, Public Sport Shops, Dept. R-66, 13 S. 16th St., Phila., Penna.

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AMMUNITION, ARMY .30-'06 SOFT POINT, Swift, Hornet, Roberts, .25-35, 7mm, .30-'06, .30-40, .45-90 (small quantities), 560—.30-'03 @ 10¢. Cases for .250-3000, 7mm, .270, .30-'03, .30-'06, .38-55. Soft point bullets, .25, .270, .30, FMJ .30, gas checked .270. Few sixteen gauge shotshells, stamp for prices. Paul Boyce, Branford, Conn.

WANTED—AMMUNITION, CASH. .22 CALIBER Long Rifles. Any shotgun shells. Adrien Grenier, North Grosvenor, Dale, Conn.

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WANT TO THANK THE HUNDREDS OF PEOple that have helped me pass the ammunition. Keep up the good work and slip me all the .22 rim fires you don't need for the duration. World War (1) Veteran, Life Member, Capt. Howard J. Knutson, P. O. Box 1313, El Centro, California.

TRADE ONLY 36, 35 REM. AUTO, 200 GR. EXP., 50-45 Auto Rem. Kleanbore, 500 L. R. Western Expert. Want .300 Savage Factory Ammo. M. K. Duryee, Life Member, Littlerock, Antelope Valley, Calif.

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SIX BOXES 28 GA. $1.85 PER BOX. TWO boxes .32 long revolvers $1.75 per box. One box .32 shorts $1.60. Two boxes .38 automatic $2.25 per box. Three boxes .38 super auto $2.60 per box. 28 rounds .45-70, $2.50. One box .38 Long $2.00. One box of 50, 35 Winchester $3.35. One box 32 Remington Rifle $2.75. One box 38-72, $2.00. Keith Lechelt, Kennewick, Wash.

TRADE—100-130 GR. SILVER TIP WINCHESter factory for equal amount of 300 Savage. Charles Mock, 611 Md. Avenue, Essex 21, Maryland.

TRADE—1000 LR MATCH MARK II FOR 350. 12 Ga. 2¾", 4-5 or Six Shot. Also have 12 Wilson Holhi and 12 Hagen Coreless new prewar golf balls, Want 400- 12 Ga. 2¾", 4-5 or 6 shot. F. Davidson, Roswell, N. Mex.

CARTRIDGES: .30-'06 F. A. 1935 ISSUE LOOSE 5¢ 1936 N.M., 1937 N.M., 1939, 1940 N.M. Add 1¢ each year. A. H. Saunders, 205 Oak Street, Wakefield, Massachusetts.

WILL TRADE—6 BOX .303 BRITISH, 10 BOX Hornets, 10 box WCF, 3 box .250-3000, 4 box 32 Remington 1 box 25 Remington auto. What have you? Make offer. Chas. Hodgkins, 20 Laurel St., Springfield, Massachusetts.

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12 GAUGE SHOTGUN AND SHELLS NEEDED. Defense purpose. Thompson Rangers, Adrien Grenier, North Grosvenor-Dale, Connecticut.

WANTED—400-500 .32 COLT AUTOMATIC AMmunition. Will pay fair price. Fred Henry, Staunton, Virginia.

500 LATE .30-'06 GOVT. AMMUNITION, 10¢ each. Want—complete reloading outfit for 28 gauge shotgun. J. C. Hamilton, Warrenton, Virginia.

AMMUNITION WANTED, SMALL OR LARGE quantities, 32 spec.; 35 Rem.; 30-'06; .300; .22's, send descriptions and best cash price. The Jaymac Co., Jackson, Michigan. tf

WANTED—MODERN AND OBSOLETE CARtridges, all sizes. Send list for quotation. Ed Howe, Coopers Mills, Maine.

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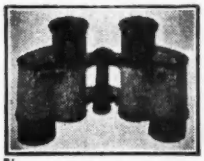

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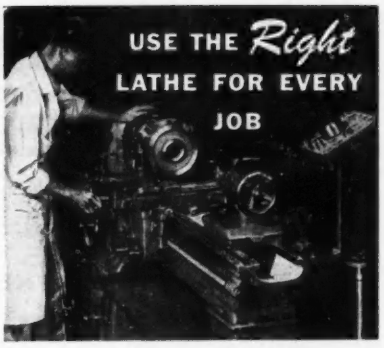

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BINOCULARS, HENSOLDT FEATHERWEIGHT, 7x56 Night Dialyt, New, 24oz., Central Focusing, $265.00; ATCO Simplex 8X Prism, Central Focusing, Used, 14oz., $75.00; 12x40 Carl Zeiss (Jena) Telonar 1409515, individual focusing, equal new, case worn, $160.00. Plaubell Makina 11's camera with 100mm., f:2.8 quick detachable Anticomar Lens, 3 plate holders, film Pack Adapter, $190.00; complete Standard Outfit $255.00; Special 75mm., wide angle, f:6.8 Orthar lens for same, $80.00; Voightlander Stereoflectoscope 6mm.x13mm. with two matched f:4.5 Heliar lenses and f:4.5 Heliar finder lens, Automatic changing plate magazine Film Pack Adapter, $225.00; Simplex 16mm. Magazine Movie Camera with ¾" f:2.8 Meyer Trioplan, 1" f:1.9 Kodak Anistigmat, 3" f:4.5 Meyer Trioplan and 4" f:4.5 Meyer Trioplan lenses, Complete Outfit, $195.00; Leica Model 111a, Chrome with 50mm. f:2.0 Summar Lens, case, $150.00; 200 mm. f:4.5 Leitz Telyt Lens with Mirror Reflex Housing, mm. Markings, $210.00; 90mm. f:2.2 Leitz Thombar lens, $115.00; Leitz Model V flash unit, $11.50, all new or equal; Model UAB Amprosound Unit Complete with DeLuxe Speaker, new, $450.00. Any item shipped C.O.D. subject approval upon payment 10% guaranteeing transportation charges. O. L. Hankison, 838 Edison Bldg., Toledo, Ohio.

WANT—REDFIELD 70 BH OR 102B-1 RECEIVER sight and 214B front sight for Remington 141 rifle, Arthur Barnard, Fergus Falls, Minnesota.

HENSOLDT-WETZLER BINOCULARS, MONOCulars. Recently acquired from Custodian of Alien Properties. All new with cases and carrying strap. Monoculars: 7 x 42 Jagd-Dialyt, $77.50; 8 x 30 Sport-Dialyt, $57.00; 6 x 42 Jagd-Dialyt, $73.00: 10 x 50 Gibirge-Dialyt, $96.00; 16 x 50 Tele-Dialyt, $106.00; 25 x 56 Dialyt Spotting Scope, $132.00 (Scope stand $5.00). Binoculars: 8 x 30 Sport Dialyt, $114.00; 8 x 50 Hirsch-Dialyt, $186.00: 10 x 56 Nacht-Dialyt, $234.00; 8 x 24 Grossfeld-Porro, $76.00. Also assorted amber sun lens, leather straps, eye cups, etc.—Send for list. Airnautic Products Co. Inc., Hastings 6, New York.

SELL ZEISS DELTURIS BINOCULARS, 8 X 24 Lightweight, perfect inside and out, individual focus, leather case, $90.00. Will ship express C.O.D. subject to examination. George S. Bergman, Sands Point, Port Washington, New York.

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EASTMAN 8MM. MOVIE CAMERA MODEL 20 carrying case, $40.00, Eastman 8mm. projector Model 50, carry case, $55.00, Keystone 8mm. illuminated Splicer, $10.00, all excellent. Julius Low, Newpoint Place, Amityville, New York.

SELL 8 x 30 ZEISS BINOCULAR, DELTRINEM. like new, price, $85.00. J. W. Corwin, Park City, Montana.

BINOCULARS, ALL OPTICALLY, MECHANICally perfect. 6 x 30 Lemaire, $55.00. 8 x 25 Normandie, $46.00. 8 x 27 Weiss-Alpine, $56.00. 8 x 30 Mirocular, new, $60.00. 8 x 24 Colmont, $36.00. 8 x 24 DuBois, $36.00. Paul Schweer, Donnellson, Iowa.

MOREAU 8 X 25 BINOCULARS COWHIDE CASE, very good, $45.00. Keystone R-8 Movie projector, extra lamp, case, excellent, $65.00. Roy Bakkum, Waukon, Iowa.

WANTED—LYMAN ALASKAN HUNTING scope. Prefer all-weather and cross-hairs mounts included. George S. Mitchell, 324 Midland Avenue, Wayne, Penna.

WANTED—LYMAN ALASKAN ALL WEATHER preferred. Describe fully. Ralph Dittmann, 427 W. Bender Road, Milwaukee, Wisconsin.

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WANTED—NATIONAL GRAFLEX OR DUO 620 camera. Give condition, price, extras. Leonard Goick, Austin, Minnesota.

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PERFECT REMINGTON MODEL 14, 25 AUTOmatic caliber, 20 rounds, $65.00. Perfect Krag Deluxe Sporter, 175 rounds of .30-40, $104.00 Springfield, selected gauged barrel, very accurate, perfect with sight covers and micrometer, $95.00. Mauser 7mm perfect, $22.00. Mauser 8mm, bayonet, $25.00. Model 42, Winchester, Skeet grade 410, never loaded, $90.00. Western Field Delux 16 gauge double, recoil pad, new, $55.00. S. & W. .22 caliber perfected hand ejector revolver, 7 shot, 17 oz. model, perfect, rare, $50.00. S. & W. K-22, perfect, $70.00. Woodsman 4½ barrel, King sights, perfect, $65.00. Jordan Multiple Press, .38 Special & .45 A. C. P., extra set .38 Special dies, $55.00. Ideal #10 .38 Special complete, $7.50. Ideal #3 .32-20 as is, $2.00. Ideal #3 .38-55 as is, $2.00 B. & M. Model 28 complete, .22-3000 Lovell, $15.00 W. L. Hermann, 711 E. Va. St., Evansville, Indiana.

EXCELLENT MODEL 70 WINCHESTER .270. Fired 30 rounds, 230 factory loads, new Pacific loading tool, 300 bullets, 300 primers, 2 lbs. Hivel No. 2, 30 empty cases, $300.00. Money Orders only. Roy Cotton, 3, Eleanor Pl., Batavia, New York.

SELL—$175.00 CINEMA MAGAZINES KODAK 8mm, carrying case, filter, splicer, roll of film. Kodascope Projector, Model 33 with carrying case, screen and Tripod, movie handbook. All new condition. Take 20 gauge O & U as part payment. Arthur Mac Duff, Great Neck Road, Waterford, Conn.

WINCHESTER A 5, ¼ MIN. CLICK MOUNTS, leather case, v. g., $30.00. 35mm. Argus AF, case, good to v. g., $15.00. Weston Master Exposure Meter, v. g., $25.00. (4) .45 A. C. P. clips, $2.00 each. (2) .22 M-1 Springfield clips, $1.00 each. Lt. Arthur R. Johnson, Hotel Bellevive, K. C. Mo.

EXCELLENT CONDITION ABERCROMBIE AND Fitch importation .22 Mauser Hornet with Griffin and Howe low type quick detachable mounts, 2 clips with a Zeiss Zielklein sight. Beautiful checkered Circassian walnut stock. Sheepskin leather case. 250 rounds of soft point ammunition. Would make an unforgettable gift. $250.00. R. E. Moore, 8200 N. Austin Ave., Morton Grove, Ill.

WANTED—ANY .44 ITEMS, ESPECIALLY S. & W. .44 Special Target Model, excellent, ideal moulds 429220, 429422, new cases. Lawrence Newton, Auburn, Mass.

DELACTIS 8 X 40 ZEISS BINOCULARS, WITH beautiful leather case and straps. Individual adjustment. Virtually unused. $200.00. R. E. Moore, 8200 N. Austin Ave., Morton Grove, Ill.

TRADE—KEYSTONE MOVIE CAMERA, 8MM with F:3.5 lens, also one inch telephoto with F:1.9 lenses, one roll color film, $55.00. Want—Mauser Action with double set triggers, .250-3000 or .257 Target grade barrel, or accurate & reasonable 22 handgun. Kenneth Owens, Grove Avenue, Lewistown, Penna.

ZEISS DELTRINTEM 8 X 30 STANDARD weight center focus, case, perfect, $125.00. S. W. Gerhardt, Malcolm Rd., Jamaica Plain, Mass.

WINCHESTER HI-WALL, .22 L. R., PERFECT except barrel cut to 21", $23.50. Another, action good, barrel poor, inside, no sights, or forearm, $15.00. H. & R., .22 L. R. U.S.R.A., 7" barrel, excellent, large grips, $35.00. S. & W., .22 L. R., Straightline, excellent 10" barrel, $35.00. Luger .30 caliber, 3⅝ barrel, excellent, Heiser belt holster, $60.00. Colt Woodsman, 6½" bbl., v. g., $42.50. Stamp please. M. D. Maxon, 825 Aldine St., St. Paul, 4, Minnesota.

WANTED—12 GAUGE PAPER SHOT SHELL trimmers, ironer (Ideal preferred), A-1 condition only. Primers & Sporting type bullets for .30-40 Krag, any weight. Write John A. Myers, Box 308, McCall, Idaho.

FOR SALE—KRAG SPORTER, 24" BARREL, Lyman #34 rear, ramp front, Stoeger Peerless checkered stock. Excellent in and out, $48.00. U. S. Army Colt .45 revolver, excellent, $25.00. E. P. Livingston, Summer, Iowa.

FOR SALE—NEW SERVICE TARGET REvolver, 7½ in. barrel, Patridge sights, perfect, $55.00. H. L. Lake, M. D., Lyons, N. Y.

'98 MAUSER 8MM ISSUE BARRELS, V.G. BORE, both sights $4.00. '98 Mauser stripped receivers $4.00. '98 issue stocks $2.50. Enfield sear-trigger combinations $1.50, extractors $2.00, sears 65¢ Firing Pins $1.00, complete front sights 75¢, Mag. springs $1.00. Krag firing pins $1.00, strickers $1.00, mag. springs 60¢. Springfield extractors $1.00, firing pins $1.00, safes $1.00. Military parts list Free. Flaigs, Hunters Lodge, Millvale, Pa.

COLT MATCH TARGET, PERFECT, $80.00. L. C. Smith, Field, 12, very good plus, $55.00. Fred Gombach, 196 Fourth Street, Passaic, New Jersey.

70-220, 10X JR. TARGETSPOT, 1000 COMPONents, Red Head, $250.00. 2R Hi-Side Win., maple; barrel pitted, accurate, Jordan dies, 1000-116's, 100-45 gr., $75.00. Browning Lightning Skeet, 500—9's, $150. .357 S. & W. 6½", 300 rounds, $135. .38 M. & P., 6", 200 rounds factory, Jordan press, 2000—108's, $140. .22 Manhattan, Cooper conversion, 500 Kleanbore, $65. .22 Colt SAA, conversion, 500 Kleanbore, $65. 4½" Woodsman, 500 Kleanbore, $65. 44 Colt C. & B., nickel, $25. .31 Colt, $35. Cased 28 Colt, $40. 44 Remington C. & B., $35. .50 Remington, $25. Flintlock pistol, $25. Aston pistol, $20. M/L Kentucky, $18. Rem-Rider, $25. Rem-Elliot, $25. .32 S. & W., N. D., $20. .25 Walther, $25. .32 H. & A., $10. .32 I. J., $5. 15" Game-Getter, $20. 410 Marlin, $30. Marlin 100-S, 500 Kleanbore, $16. Johnson MD, $85. Details for stamp. Want—Sharps-Borchardt, .224 barrel. R. E. Rhines, 310 Eleventh St., Franklin, Pa.

WANTED—SAVAGE MODEL 99 K, .300 CALIber, excellent to perfect; give complete description and price wanted. C. E. Cross, Caledonia, Michigan.

LEFEVER SINGLE BARREL SIXTEEN GAUGE hammerless automatic safety—very good, $10.00. .32 Colt Automatic with holster, good to very good, $25.00. David Richie, 217 E. LaFrance St. Elmira, N. Y.

1000S OF COMPONENTS FOR GUNS ADVERtised p. 53, September RIFLEMAN; sold with or after guns. Squire Jones.

ZEISS BINOCULARS, SCOPE SIGHT, BISLEY Flat top target, Hensley Moulds, Sisk 55, and 63 grain, primers and powder, 257—100 gr. W. T. & C. W. and primers. Cases, Lovell, Varminter, .257 new and used. Powder, most all rifle and pistol. Prices on application with stamp. Want: 70 Magnum action, dies for Schmitt No. 24, Jordan and Pacfic dies standard and Wildcat. S. F. Colladay, 1331 G St. N. W., Washington, D. C.

A-hunting will we go?

UNDER the capable leadership of national, state and local game restoration organizations, the American game supply — once sadly depleted — is now being replenished.

But this work must be carried on *constantly* if the great American heritage of free and abundant hunting is to survive. Game is a *crop* which must be tended *every* year.

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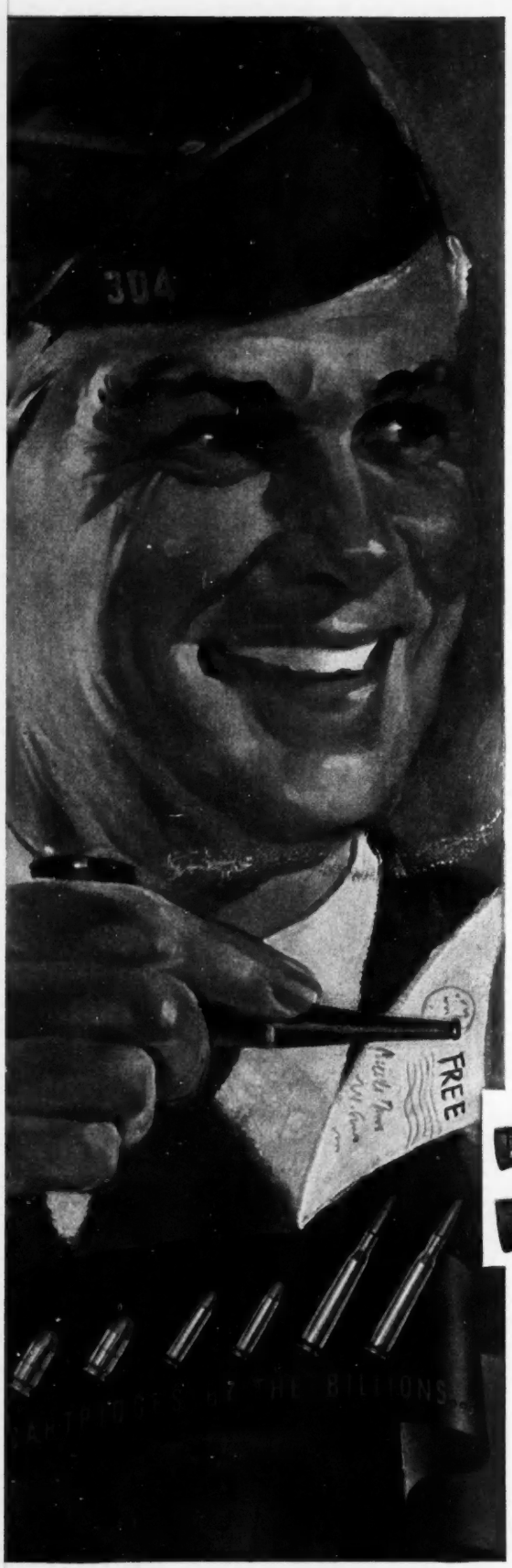

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Every American soldier who carries a fast-firing Winchester Carbine is practically a one-man machine gun nest. Developed by Western's Winchester division, the Winchester Carbine, in the hands of thousands of troops formerly armed with service pistols, increases an infantry division's firepower nearly *one-third.*

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With these two modern weapons—produced by Western's Winchester division—our boys are better protected, our casualties held to the minimum.

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The Winchester Carbine, officially known as U. S. Carbine, Caliber .30 M1, is semi-automatic. It delivers 15 aimed shots, effective at 300 yards, as fast as the trigger can be squeezed. That means the troops who use the carbine instead of service pistols, command fire-power of nearly *double the intensity and 6 times greater range.*

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Typical of the battle-front stories of Garand effectiveness is that of an American sergeant in Sicily who got 8 charging Germans with the 8 shots in his cartridge clip. Long in quantity production of Garands, Western's Winchester division *cut their cost to less than ½ the original contract price.*

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